

Project Areas with Relevance

Code	Project Area	Relevance
P1	AI, Machine Learning & Predictive Analytics	To develop intelligent systems capable of prediction, classification, recommendation, pattern recognition, and data-driven decision making using machine learning and artificial intelligence techniques.
P2	Computer Vision, Image, Video & Speech Processing	To build systems that can understand, analyze, and interpret images, videos, gestures, and speech for real-world applications.
P3	Web, Mobile & Enterprise Applications	To design and develop scalable web, mobile, database, ERP, and enterprise solutions that automate real-world processes and improve productivity.
P4	Healthcare & Biomedical Informatics	To leverage computing technologies for healthcare, disease prediction, patient monitoring, medical decision support, and biomedical data analysis.
P5	Generative AI, LLMs, RAG & Agentic AI	To explore advanced AI systems capable of generating content, reasoning, retrieval-augmented generation, autonomous decision making, and intelligent assistance.
P6	FinTech, Business Intelligence & Optimization	To develop intelligent financial, business, and optimization solutions for forecasting, fraud detection, risk assessment, and operational efficiency.
P7	Smart Cities, Urban Analytics & Public Infrastructure	To address urban challenges through intelligent transportation, public safety, city planning, resource management, and infrastructure optimization.
P8	Cybersecurity, Digital Forensics & Threat Intelligence	To design secure systems capable of detecting, preventing, analyzing, and responding to cyber threats, vulnerabilities, attacks, and digital crimes.
P9	EdTech, HRTech & Recommendation Systems	To enhance education, recruitment, skill development, and personalized recommendations using intelligent software solutions.
P10	IoT, Embedded Systems & Industrial Automation	To develop smart connected systems integrating sensors, embedded devices, automation technologies, and real-time monitoring for industrial and societal applications.
P11	AgriTech, Environment & Sustainability	To apply technology for agriculture, environmental monitoring, climate analysis, resource conservation, and sustainable development.

Projects are categorized in four levels: Excellent, good, average and Below Average on the basis of Project evaluation and patentability.

Excellent >85% marks

Good >75% - 85% marks

Average 60% - 75% marks,

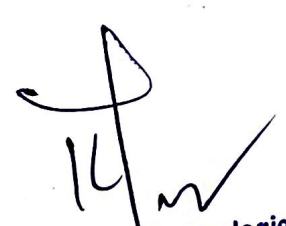
Below Average <60% marks


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Details of Major Projects Completed in academic year 2025-26

(B.Tech AIML)

Sr. No.	Project Title	Project Area	Tools/Technology	Category
1	V.I.S.A.R.A. (Voice-enabled Intelligent System for Augmented Real-time Assistance)	Generative AI, LLMs, RAG & Agentic AI	ML, Python, Google Colab, VS code, Python libraries	Excellent
2	Real-Time Sign Language to Speech Converter	Computer Vision, Image, Video & Speech Processing	Jupyter Notebook, python, Python libraries , VS code	Excellent
3	AI Interview Performance Analyzer	AI, Machine Learning & Predictive Analytics	ML,Python, Jupyter Notebook	Excellent
4	Digital Health Record System	Web, Mobile & Enterprise Applications	ML, Python, vs code , python libraries	Excellent
5	AI-Based Artistic Image Generator	Generative AI, LLMs, RAG & Agentic AI	ML, Python, Colab, Python Libraries	Excellent
6	Driver Drowsiness Detection	Computer Vision, Image, Video & Speech Processing	Python Libraries, ML, Python, VS Code	Excellent
7	AI-Powered Dungeon Master for Text-Based Role-Playing Games	Generative AI, LLMs, RAG & Agentic AI	NLP,ML, Python, JSON	Excellent
8	MiraAI – Personalized Voice-Powered AI Assistant	Generative AI, LLMs, RAG & Agentic AI	FastAPI (python), Firebase Auth, React.js, react native, postgresSQL, AWS S3	Excellent
9	AI-Powered Healthcare Diagnosis System	Healthcare & Biomedical Informatics	python,ml, vs code , Colab, streamlit	Excellent
10	TermPilot AI	Generative AI, LLMs, RAG & Agentic AI	ML , Python Libraries, VS Code, Gemini API	Excellent


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11	Brain Echo	Healthcare & Biomedical Informatics	Python, NumPy, Pandas, NLP, ML libraries	Excellent
12	G-ONE: Agentic AI-Powered Healthcare & Pharmaceutical Intelligence Platform	Generative AI, LLMs, RAG & Agentic AI	Nextjs, Langchain, Python, AI automation, DBMS	Excellent
13	Handwritten Digit Recognition System	Computer Vision, Image, Video & Speech Processing	Python, dataset MNIST, NumPy, Pandas, AIML, CNN, OpenCV	Excellent
14	Arambh Science from roots The beginning of understanding	Web, Mobile & Enterprise Applications	HTML, tailwind css, React.js, Node.js, REST API	Excellent
15	Plagiarism Detector	AI, Machine Learning & Predictive Analytics	python, nktl, google translations, transformers	Good
16	ServAlve : "From Upload to Approval, Seeing the Truth in Every Transaction, Instantly."	AI, Machine Learning & Predictive Analytics	react, Mongo DB, Kubernetes and Kafka	Excellent
17	A.I.R.S.S. (AI Integrated Rescue And Support System)	IoT, Embedded Systems & Industrial Automation	Python, OpenCV, YOLOv8, NumPy, Pandas, Google Colab / Jupyter Notebook, VS Code	Excellent
18	AI-Powered Fraud Detection System	AI, Machine Learning & Predictive Analytics	Google colab, Numpy, pandas	Average
19	SafeSphere AI	Computer Vision, Image, Video & Speech Processing	Python, OpenCV, TensorFlow, Numpy, Pandas, Streamlit or Flask, YOLO	Excellent
20	Chatting App	Web, Mobile & Enterprise Applications	React.js, Node.js, Socket.IO, MongoDB	Good
21	Modern Education Dashboard	Web, Mobile & Enterprise Applications	React.js, Node.js, MongoDB, Chart.js	Good

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Details of Major Projects Completed in academic year 2025-26**(B.Tech AIDS)**

Sr. No.	Project Title	Project Area	Tools/Technology	Category
1	Laptop Price Predictor	AI, Machine Learning & Predictive Analytics	Python Libraries	Excellent
2	AI Trip Planner	Generative AI, LLMs, RAG & Agentic AI	Web Development - React, Node JS, Firebase	Excellent
3	Attendance Management using facial recognition	Computer Vision, Image, Video & Speech Processing	Python Libraries, Java	Excellent
4	Health Lens	Healthcare & Biomedical Informatics	Python, LLMs, deep learning	Excellent
5	RoomRadar	AI, Machine Learning & Predictive Analytics	Python Libraries	Excellent
6	RAG based AI Teaching Assistant	Generative AI, LLMs, RAG & Agentic AI	Python, LLMs, deep learning	Excellent
7	Hire Sense AI	Generative AI, LLMs, RAG & Agentic AI	Python, React, Css, Postgre Sql, Node.js	Excellent
8	AI Healthcare and Risk Management	Healthcare & Biomedical Informatics	Python, AI	Excellent
9	Bookmytest	Web, Mobile & Enterprise Applications	full stack , Database	Average
10	Deepfake audio detection platform	Computer Vision, Image, Video & Speech Processing	Backend & System Integration, Frontend & UI/UX designer, Core model Developer	Excellent

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11	AI-Based Universal Deepfake Detection System (Image + Video)	Computer Vision, Image, Video & Speech Processing	AI Model developer, Backend, Frontend	Excellent
12	Intelligent Traffic Monitoring and Flow Analysis	Smart Cities, Urban Analytics & Public Infrastructure	OpenCV, PyTorch, Python, YOLOv8, SQL	Excellent
13	Face recognition based attendance system	Computer Vision, Image, Video & Speech Processing	Backend, Frontend, Database	Excellent
14	AI Healthcare and Risk Management	Healthcare & Biomedical Informatics	python AI	Good
15	AI-Based Smart Plant Care System	Healthcare & Biomedical Informatics	Hardware/Backend + AI/ML(Scikit-learn), Frontend(React.js)+ DS(python libraries), Python + UI/UX designer	Excellent
16	GenAI assistant	Generative AI, LLMs, RAG & Agentic AI	Python+AIML+GenAI+NLP etc.	Excellent
17	AI Waste Management System	AgriTech, Environment & Sustainability	Full stack + AI + IOT	Good
18	Intelligent International Payment Routing Optimizer	FinTech, Business Intelligence & Optimization	Python, Machine Learning, Pandas, Streamlit, Optimization Techniques	Excellent
19	AI-Based Financial Marketing Predictions	FinTech, Business Intelligence & Optimization	Python, Machine Learning(Keras, Scikit-learn), Web Frameworks(Flask), Frontend(HTML, CSS, Javascript, React.js)	Excellent


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20	OmniAgent	Generative AI, LLMs, RAG & Agentic AI	Python, LangChain, CrewAI, LLM APIs	Excellent
21	AI Personal Finance Manager	FinTech, Business Intelligence & Optimization	Python,pandas,chart.js	Good
22	Image Processing Using ML	Computer Vision, Image, Video & Speech Processing	Python Libraries	Good
23	AI Trip Planner	Generative AI, LLMs, RAG & Agentic AI	Python libraries, AI	Excellent
24	e-swastya	Healthcare & Biomedical Informatics	FLUTTER, HTML , CSS, JavaScript , MIT app Inventor 2, Arduino IDE, C++, PostGRE SQL	Excellent
25	Real-Time Face Detection Extension	Computer Vision, Image, Video & Speech Processing	Open CV and Deep learning	Good
26	Real-Time Hand Gesture Control	Computer Vision, Image, Video & Speech Processing	Python, OpenCV, MediaPipe	Excellent
27	FloatChat AI	Generative AI, LLMs, RAG & Agentic AI	Python, Langchain	Good

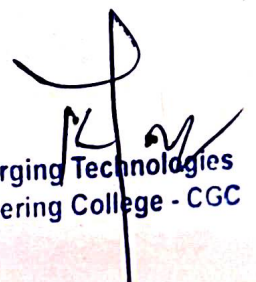

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Details of Major Projects Completed in academic year 2025-26

(B.Tech CSE - DS)

Sr. No.	Project Title	Project Area	Tools/Technology Used	Category
1	Controlled RAG with Logical Validation	Generative AI, LLMs, RAG & Agentic AI	Python, LangChain, Vector Database, RAG, LLMs	Excellent
2	Nagar-Vikas AI	Smart Cities, Urban Analytics & Public Infrastructure	python, machine learning, pyspark, kmeans, folium/geo pandas,streamlit	Excellent
3	Talent IQ: Multimodal AI Career Intelligence System	EdTech, HRTech & Recommendation Systems	Frontend: Streamlit Backend: Python + Flask AI/LLM: Google Gemini API ML/NLP: Scikit-learn, NLTK	Excellent
4	RESUMATE	EdTech, HRTech & Recommendation Systems	python,ML,NLP,Scikitlearn,pdfplumber	Excellent
5	FUTURE GUARD:STUDENT INTELLIGENT PLATFORM	EdTech, HRTech & Recommendation Systems	REACT,vite,talwindcss,daisyui,Node.js,expressjs,multer,mongodb,authentication,AI/ML services,and file handling	Excellent
6	WAREHOUSE SPACE AND INVENTORY AUTOMIZATION SYSTEM	Smart Cities, Urban Analytics & Public Infrastructure	PYTHON , JS,PYTHON MODULES	Excellent
7	ADVANCE INTERVIEW PLATFORM	EdTech, HRTech & Recommendation Systems	MERN ,REDUX,SOCKET.IO,LLM , VERSION CONTROL,GIT AND GITHUB	Excellent
8	ADHIGAMA	EdTech, HRTech & Recommendation Systems	HTML,JS,PYTHON,AI/LLM,GOOGLE GEMINI API	Excellent

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9	Churn Prediction	AI, Machine Learning & Predictive Analytics	Machine Learning	Good
10	DeepFake Detection System	Cybersecurity, Digital Forensics & Threat Intelligence	Machine Learning, AI, Deep Learning	Excellent
11	Road Accident Hotspot Prediction System Using Machine Learning	Smart Cities, Urban Analytics & Public Infrastructure	Python, Pandas, Scikit-learn, Time Series Analysis, K-Means Clustering, Random Forest Classification, ARIMA, Power BI / Streamlit	Good
12	Fake News Detection System – Classify articles as genuine or fake using NLP models	Cybersecurity, Digital Forensics & Threat Intelligence	Python, Natural Language Processing (NLP), Machine Learning, Scikit-learn, Pandas, NumPy, Jupyter Notebook	Average
13	Smart Disease Risk Prediction System using Lifestyle Data	Healthcare & Biomedical Informatics	Streamlit, (Interactive Web Dashboard with Visual & Text Outputs)	Excellent
14	Predictive analysis of the healthcare using big data set	Healthcare & Biomedical Informatics	python for AI agent, SQL, ML algorithm applied on AI agent and on Large data set	Excellent
15	Climx-AI: Climate Prediction for Future Development	AgriTech, Environment & Sustainability	react js, mongo db , node js , brevo,clerk,kimi K2 2.5,groq,gemini,em dataset ,ml	Excellent
16	FL-HealthCare: Privacy preserving heart disease Prediction using Federated Learning	Healthcare & Biomedical Informatics	Python, Machine Learning, scikit Learn, Streamlit, .	Excellent
17	Resume Screener	EdTech, HRTech & Recommendation Systems	Machine Learning	Good
18	Deep packet inspection for Encrypted Network Using Machine Learning	Cybersecurity, Digital Forensics & Threat Intelligence	c++,Libpcap,python(Scikit-Learn), Machine Learning,Streamlit	Excellent

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19	ML - Based Customer Churn Prediction in Retail banking	FinTech, Business Intelligence & Optimization	Python,Pandas ,numpy, scikit learn,XGBoost,maltplotlib , seaborn ,SHAP,imbalanced learn, Jupyter Notebook	Excellent
20	LLM Research paper Assistant(RAG)	Generative AI, LLMs, RAG & Agentic AI	python , langchain / LlamaIndex,vector db ,LLM models,NLP,AI tools	Excellent
21	Personalized Learning Recommendation System	EdTech, HRTech & Recommendation Systems	Python, Pandas, NumPy, Scikit-learn, Flask, MySQL, HTML, CSS, JavaScript.	Good
22	Agentic AI for Database management	Generative AI, LLMs, RAG & Agentic AI	Python ,Sql,MySQL,TensorFlow, PyTorch,scikit-learn,HuggingFaceTransformers	Excellent
23	House Price Prediction System Using Machine Learning	AI, Machine Learning & Predictive Analytics	python ,pandas, numpy, matplotlib,seaborn , scikit-learn,Jupyter Notebook ,	Excellent
24	AI Medical Voice Agent	Healthcare & Biomedical Informatics	React, Node.js,Type Script	Good
25	Startup Success Prediction Model	AI, Machine Learning & Predictive Analytics	Machine learning, Python ,HTML, CSS,	Excellent
26	Agri-Intelligence: An Integrated Framework for Crop Recommendation, Disease Diagnosis and Yield Estimation	AgriTech, Environment & Sustainability	ml and tensorflow	Excellent
27	Heart Disease Prediction	Healthcare & Biomedical Informatics	Machine Learning, Python, VSCode	Good
28	KALAKARX	Web, Mobile & Enterprise Applications	HTML, Javascript	Good

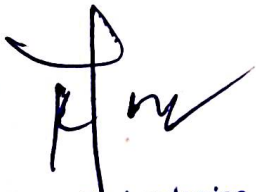
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Details of Major Projects Completed in academic year 2025-26

(B.Tech CSE - IOT)

Sr. No.	Project Title	Project Area	Tools/Technology Used	Category
1	Breach Watch-- Multi-Platform Data Breach Detection System Using Public Breach Intelligence APIs	Cybersecurity, Digital Forensics & Threat Intelligence	React, HTML+JS, Streamlit, PostgreSQL, Mongo DB, SQ Lite	Excellent
2	Smart Parking IOT	IoT, Embedded Systems & Industrial Automation	Tech Stack: ESP32/Arduino, Ultrasonic/IR Sensors, MQTT, Firebase, C++, Python and React	Excellent
3	Web Scraper	Web, Mobile & Enterprise Applications	HTML, Python, AI, and other tools	Excellent
4	Malware analysis Sandbox	Cybersecurity, Digital Forensics & Threat Intelligence	React JS , Vote, npm, Python(fast API), Machine Learning Tools Used: Docker, python virtual environment	Excellent
5	Design and Development of a Web Application Vulnerability Scanner with Interactive Reporting Dashboard	Cybersecurity, Digital Forensics & Threat Intelligence	HTML, CSS, Java Script, Python(Flask), Request Libraries, My SQL, charts.js	Excellent
6	MAVI.5	Generative AI, LLMs, RAG & Agentic AI	Python, Vosk, Gemma/Mistral, Ollama and Hugging face for models etc.	Excellent
7	Machine Learning-Based Intrusion Detection System for Botnet Attack Detection in Network Traffic	Cybersecurity, Digital Forensics & Threat Intelligence	Python, Pandas & NumPy, Scikit-learn, Matplotlib & Seaborn – Data visualization and confusion matrix	Excellent


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			Streamlit – Web-based dashboard for intrusion detection	
8	Zero Trust Enterprise Lateral Movement & Risk Analyzer	Cybersecurity, Digital Forensics & Threat Intelligence	Python(Fast API), NetworkX, React.js, D3.js, SQLite, Docker	Excellent
9	AI-Powered Vulnerability Scanning & Reconnaissance Platform	Cybersecurity, Digital Forensics & Threat Intelligence	React/HTML,CSS,JS, Flask/Django, Python+ Tools, My SQL, Dashboard and Reports	Excellent
10	Kubernetes Lateral Movement & Misconfiguration Risk Analyzer	Cybersecurity, Digital Forensics & Threat Intelligence	Kubernetes(Minikube/Kind), Python(Fast API), React.js, NetworkX/D3.JS, Docker	Excellent
11	Web Application Vulnerability Scanner	Cybersecurity, Digital Forensics & Threat Intelligence	React/HTML-CSS-JS, API(Flask), Python-requests, Regex, MySQL, Dashboard & Reports	Excellent
12	Local Eyes	Web, Mobile & Enterprise Applications	Flutter, Node.js, Mongo DB	Good
13	Automated vulnerability assessment and Security report generation system	Cybersecurity, Digital Forensics & Threat Intelligence	HTML, CSS, Python. Flask Framework, Nmap, Python-nmap	Excellent
14	DDoS Attack	Cybersecurity, Digital Forensics & Threat Intelligence	Python, pandas, numpy, scikit-learn	Good
15	AI Based Tourist Safety Recommendation System	Smart Cities, Urban Analytics & Public Infrastructure	HTML, CSS, JavaScript, React, node.js, express.js, Google map API	Good
16	Smart Hospital	IoT, Embedded Systems & Industrial Automation	HTML, CSS , Python, IOT Base	Excellent
17	Cyber Attack Monitoring and Visualization System	Cybersecurity, Digital Forensics & Threat Intelligence	HTML, CSS, Python, Cyber Attack Logs(System Logs/Network Logs)	Excellent


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18	Phishing Detection using URL and content Analysis	Cybersecurity, Digital Forensics & Threat Intelligence	React bits, Node js, MongoDB, express, tail wind	Excellent
19	Stock Price Forecasting using Anomaly Detection and ARIMA	FinTech, Business Intelligence & Optimization	Python, Flask/Node.js, ARIMA Model, Pandas, NumPy, Matplotlib, Stock Market Dataset(Yahoo Finance API/CSV Historical Data)	Excellent
20	AI-Powered Fraud Detection for UPI with Blockchain Ledger	FinTech, Business Intelligence & Optimization	HTML,CSS, JavaScript, React.js,Python(Flask)/Node.js(Express.js),Scikit-Learn, Pandas, NumPy Blockchain(ethereum)	Excellent
21	Real-Time IDS and SIEM System	Cybersecurity, Digital Forensics & Threat Intelligence	Python, FastAPI, Scapy, SciKit-Learn, NumPy, Pandas, HTML, CSS, Javascript, Tailwind, Echarts	Excellent
22	Virtual IOT Intrusion Detection & Anomaly Intelligence Platform	IoT, Embedded Systems & Industrial Automation	Virtual Iot Device Simulator(Docker Containers/Python Scripts), Network Traffic Monitoring(Scapy / Wireshark APIs) AI-Based Anomaly Detection Engine(Python + Scikit-Learn)	Excellent
23	CareerFlux	EdTech, HR Tech & Recommendation Systems	MERN Stack, HTML, CSS, React JS, Tailwind, Express JS+Node JS, Mongo DB	Average
24	Web-Based Vulnerability Assessment & Risk Analysis Platform	Cybersecurity, Digital Forensics & Threat Intelligence	Python, HTML, CSS, JavaScript, MySQL/PostgreSQL	Good


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25	Cloud-Native Smart City Deception:AI-Powered IOT Honeypot & SIEM	Cybersecurity, Digital Forensics & Threat Intelligence	Oracle Cloud (OCI), Docker, T-Pot, Python, FastAPI, Scapy, SciKit-Learn, HTML/Tailwind,Echarts,Pydantic	Excellent
26	Student Portfolio and Task Manager	Web, Mobile & Enterprise Applications	HTML,CSS,JS	Good
27	Heart Disease Predictor	Healthcare & Biomedical Informatics	Python, numpy ,pandas ,matplotlib ,scikit-learn, Python , jupyter notebook	Excellent


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