

JANESH E

Bachelor of Technology in Computer Science and Business Systems, Sri Sairam Engineering College

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EDUCATION

Bachelor of Technology - BTech, Computer Science and Business Systems **Oct 2022 - Present**
Sri Sairam Engineering College CGPA : 8.95/10.00

Bachelor of Science - BS in Data Science and Applications **Sep 2022 - Present**
Indian Institute of Technology, Madras CGPA : 8.47/10.00

PROFESSIONAL EXPERIENCE

Data Science Internship Trainee, Corizo **Jan 2024 - March 2024**

- Honed my skills in data analysis, programming, prediction model building and problem-solving, laying a strong foundation for my journey into the field of data science ; worked on diverse projects, including stock price prediction and wine quality assessment.

Data Scientist Intern, Exposys Data Labs **May 2024 - June 2024**

- Engineered 8+ features using patient's lab results and lifestyle data; model achieved 90% accuracy and outperformed existing risk assessment tools in predicting diabetes risk.

Software & AI Subsystem Member - Ad Astra Rover Team **Oct 2024 - Present**

- Orchestrated autonomous navigation system for next-generation Mars rover, enabling the rover to traverse rugged terrains while avoiding obstacles with 95% accuracy using AI-driven path-planning and localization.
- Collaborated with a multidisciplinary team to enhance software architecture and system efficiency.

PROJECTS

Diabetes Prediction System (Role : Data Scientist)

- Engineered an ML model to predict diabetes risk, with an accuracy of 95%, through feature engineering and model selection.

TheraSage - AI-Powered Mental Health Companion (Role : AI Workflow Designer)

- Built an intelligent emotional support platform integrating voice/text inputs, emotion detection (DistilRoBERTa), CBT-based analysis, journaling, and LLM-driven conversational responses using LangGraph. Designed multi node stateful chains, persistent session memory and seamless voice transcription and synthesis.

Nirmaan Netra - Online Monitoring of Unauthorized Buildings (Role: Backend Developer & ML Engineer)

- Developed backend and ML pipelines for detecting unauthorized constructions using satellite imagery, with an accuracy of 91%.

SKILLS

Programming Languages: Python, R, C/C++, Java, Javascript, Bash

Web Development: Flask, FastAPI, SQLAlchemy, PostgreSQL, Vue.js

Data Science & AI/ML: TensorFlow, Keras, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib

LLMs / RAG: NLTK, spaCy, HuggingFace Transformers, LangChain, LangSmith, FaissDB, Pinecone, LORA/QLORA

Computer Vision & Image Processing: OpenCV

MLOps Tools: DVC, MLflow, GCP

DevOps Tools: Git, GitHub, Docker

ACHIEVEMENTS

- Finalist, Smart India Hackathon 2024:** Developed an AI-powered website to monitor unauthorized buildings, detecting dimensions, water encroachments, and verifying authorization using government databases for the NCT Delhi's problem statement.
- Finalist, International Rover Challenge 2025:** Contributed to the development of a rover for multiple missions including reconnaissance, delivery, autonomous expedition, and instrument deployment; specifically worked on the code for autonomous expedition.