Putchakatla Jeevan Kiran

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PROFILE

Computer Science student specializing in Artificial Intelligence and Machine Learning. Skilled in problem-solving with a strong foundation in Data Structures and Algorithms. Passionate about building innovative, impactful solutions and collaborating effectively in teams.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, SQL
Web Development: HTML, CSS, JavaScript, React.js, Node.js, Express.js
Databases: MySQL, MongoDB
AI/ML: TensorFlow, Scikit-learn, OpenCV, CNN, Pandas, NumPy, LangChain
Concepts: Data Structures and Algorithms, Machine Learning, Object-Oriented Programming (OOP), SDLC, Gen AI
Tools & Platforms: VS Code, Postman, GitHub, Docker, Git, REST APIs

EXPERIENCE

Full Stack Web Development Intern at Prodigy Infotech
Worked on end-to-end web application development using the MERN stack, gaining hands-on experience in JavaScript, React, Node.js, Express, and MongoDB. Contributed to feature development and bug fixes in a collaborative Agile environment. Built responsive UI components and managed state using Zustand. Integrated REST APIs using Axios and implemented secure authentication and real-time functionalities. Adapted to remote workflows and Git-based collaboration, enhancing skills in problem-solving, version control, and team communication.

PROJECTS

Smart Resume Ranker – AI-Powered HR Assistant
Developed an AI-driven HR assistant leveraging Retrieval-Augmented Generation (RAG) to automatically parse, embed, and rank candidate resumes based on job descriptions. Implemented semantic search using FAISS for vector-based retrieval and integrated OpenAI's GPT model for contextual analysis and summarization of candidate profiles. Delivered a user-friendly interface using Streamlit to support dynamic interaction and resume insights tailored to hiring requirements.
Tools: *Python, OpenAI GPT, FAISS, Sentence Transformers, LangChain, Streamlit*

Advanced Collision Detection for Smart City using Deep Learning
Built a system using YOLOv8, DeepSORT, and Optical Flow to detect vehicle collisions in real time. Used a ResNet-based CNN with transfer learning to validate detected events and reduce false positives. Tested on recorded and simulated traffic videos with strong real-time performance.
Tools: *Python, YOLOv8, DeepSORT, ResNet (Transfer Learning), OpenCV, PyTorch*

Real-Time Messaging Platform with MERN Stack and Socket.IO
Built a chat app with React.js, Node.js, and MongoDB, supporting private and group messaging. Integrated Socket.IO for real-time communication and live typing feedback. Designed a responsive UI with secure login and instant message updates.
Tools: *HTML, CSS, JavaScript, React.js, Node.js, Express.js, MongoDB, Socket.IO*

EDUCATION

B.Tech in Computer Science — 2025
Vignan Institute of Technology and Science — GPA: 7.4/10

Intermediate (MPC) — 2021
Narayana Group of Institutions — GPA: 9.2/10

SSC — 2019
Mother Teresa Grammar High School — GPA: 8.7/10

CERTIFICATIONS

Java Programming (Oracle Academy):
Gained understanding of OOP, Java syntax, and core application design. Applied concepts in practical exercises. Developed basic applications to demonstrate encapsulation, inheritance, and polymorphism.

Scientific Computing with Python (FreeCodeCamp):
Hands-on experience with Python, NumPy, Pandas, and scientific computing. Built projects involving data manipulation and analysis. Gained skills in writing reusable functions and automating data workflows.

Supervised Machine Learning (Stanford University):
Learned ML models like linear/logistic regression and evaluation techniques. Practiced on real-world datasets with focus on model performance. Understood concepts like overfitting, bias-variance tradeoff, and model optimization.

CONFERENCE PUBLICATION

Advanced Collision Detection for Smart City using Deep Learning
Presented at the 3rd International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS 2025),
M. P. Nachimuthu M. Jaganathan Engineering College, Chennimalai, Erode, India.
June 11–13, 2025. Published under IEEE.

CO-CURRICULAR ACTIVITIES

Hack The Verse - Hackathon
Participated in a national-level hackathon and developed an efficient hospital management system. Explored real-world challenges and collaborated with a team to build a functional web-based solution.

Java Programming Workshop
Attended a practical workshop on Java programming and built mini-projects to reinforce learning. Gained hands-on experience with IDEs, debugging, and object-oriented design principles.