

# Chandu Vemula

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## Skills

**Languages:** C/C++, Java, Python, JavaScript, TypeScript, Go, MySQL, PostgreSQL

**Technologies & Tools:** Autodesk Inventor, Jupiter Notebook, LaTeX, VS Code, GitHub, Docker, VMware, Postman, Kubernetes, Docker, Splunk, Kafka, Spring, Angular, ReactJS, AWS, Tailwind CSS, HTML, Node.js, RESTful APIs.

## Work Experience

### Tech Corporation, Hyderabad

Mar 2025 – Aug 2025

#### AI Engineer Intern

- Led team of 4 Engineers on ML platform redesign, Reduced model Serving cost by 40% through optimization, Established MLOps best practices across organization. reduced human-in-loop effort through automated data.
- Leading the development of core ML infrastructure serving 1M+ Users. Architected the real-time personalization engine, reducing latency by 60% while improving recommendations Quality by 25%.
- Automated data preprocessing and model training steps to reduce manual work. Improved inference efficiency, enabling 1.4×higher request throughput under the same infrastructure budget. Improved system scalability, Support.
- Python, SQL, Pytorch, TensorFlow, Scikiy-learn, MLOps, inference pipelines, Numpy, pandas, AWS, GitHub, vscode.

### Tech Company, Hyderabad

Oct 2025 – Dec 2025

#### Full Stack developer Intern

- Automated repetitive frontend and backend task to reduce manual effort, Improved application workflows by simplifying data handling logic and Built reusable UI components to avoid duplicate development work.
- Learned how clean architecture reduces maintenance cost over time and Streamlined API handling to minimize repeated code, manual testing, and cut deployment, debugging time by introducing structured logging and error handling
- Python, TypeScript(ES6+), React, Tailwind CSS, HTML5, CSS3, Responsive Design, Node.js, Express.js, RESTful APIs, Mango DB, PostgreSQL/MySQL, Database Design & CRUD operation , AWS, Docker, CI/CD, Git, VS code

## Project Work

- **Self-Evolving Intelligence System (2025):** Reduced manual retraining effort by ~70% by implementing a Continuous learning and feedback-driven adaptation framework, improved long-term decision quality by enabling of autonomous adaptation to new inputs and dynamic environments, Designed and intelligent system that updates its decision strategy in real time using feedback and memory without retraining or redeployment. Pytorch, Docker, Ray, Python, Networks.
- **End-to-End Data Scientist Platform (2025):** Architected a unified end-to-end data science platform spanning data ingestion, feature engineering, model training and monitoring. model deployment time by 65% by automating training& automated 90% of manual data preprocessing, Improved experimentation velocity by 3x.python, MLflow. .
- **AI Decision Engine (2025):** Architected a real-time AI decision engine with multi-model inference,Dynamic apriority-aware execution for enterprise-scale workloads. Achieved 50,000+ decisions per second with <10 ms P99 latency under burst traffic using intelligent batching, Ensured 99.99% system availability. Pytorch, Kafka, Redis, Go, gRPC.

## Education

### Gurunanak Institutions Hyderabad

June 2025

B.Tech. in Computer Science and Engineering-AI/ML

**CGPA: 8.4/10**

**Relevant Coursework:** Object Oriented Programming, Artificial Intelligence and Machine Learning I Dat-abases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining, Advance Data Structures and Algorithms, Information Retrieval, Image Processing, Database Management Systems, Software Engineering, Design & Analysis of Algorithms, Calculus & optimization, Deep Learning, Neural Networks, Natural Language Processing, Computer Vision, Reinforcement Learning.

## Awards and Certificates

- Research Excellence Award
- Qualified in **International Youth Math Challenge**
- Machine Learning and Deep Learning Specialization on Coursera
- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate

## Positions of Responsibility

- **Project Lead:** Led design and implementation of a self-learning AI framework; coordinated model evaluation, safety.
- **Independent Researcher (AI/ML):** Conducted Original research on self-evolving AI and Sustainable intelligence Authored research-grade manuscripts and implemented experimental frameworks
- **Open-Source Contributor:** Maintained ML repositories, reviewed pull requests, improved model effic