DINESH KOLASANI

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Education

BAPATLA ENGINEERING COLLEGE May 2026

BTech in Computer Science and Engineering (Artificial Intelligence and Machine Learning) with CGPA:8.2 *Bapatla, AP*

- **Relevant Courses:** Design and Analysis of Algorithms, Fundamentals Concepts Of Programing Language, Operating System,Software Project Planning ,Artificial Intelligence , Machine Learning , Deeplearning ,Generative AI.

Experience

Machine Learning Intern June 2025 – July 2025

INTERNPE [🌐] *Remote*

- Built and deployed ML models (Cancer, Diabetes, Spam Detection, IPL Score, Movie Recommendations) using Python, Pandas, Scikit-learn, which delivers 85% - 90% accuracy on test data for each model.
- Created end-to-end pipelines for data preprocessing, model training, and validation, ensuring reproducibility and scalable ML workflows.
- Deployed machine learning models into production-like environments Flask and Streamlit, enabling real-time predictions and user interaction.

Python Developer Intern May 2024 – June 2024

VAULTOFCODES [🌐] *Remote*

- Built Python projects like a Loan Calculator, Vehicle Detection system, and Snake Game and many more, showing skills in different types of applications.
- Got practical experience with Python, object-oriented programming, and libraries like OpenCV, YOLO, and Pygame.
- Learned good coding practices such as writing clean code, debugging, using Git for collaboration, and organizing projects properly.

Projects

Multi-Language Movie Recommendation System | *Python, Flask, Pandas, Scikit-learn, Cosine Similarity* **[github]**

- Developed a personalized movie recommendation system for English, Hindi, and Telugu movies using user-based collaborative filtering and cosine similarity on the user–item matrix, integrating genres and rating-based filters to improve prediction accuracy and personalization.
- Deployed a Flask web application with interactive HTML pages, allowing users to seamlessly select languages, genres, and recommendation types, significantly enhancing user engagement and content discovery.

Market Data Service | *Python, FastAPI, PostgreSQL, Kafka, Redis, Docker, AWS S3, Moving Averages* **[github]**

- Built a production-ready microservice to fetch real-time stock data from Finnhub API, process it via Kafka streaming pipelines, and expose it through FastAPI REST endpoints, achieving ¡200ms response times.
- Implemented automated 5-point moving average calculations with persistent storage in PostgreSQL, caching via Redis, and event-driven architecture for high-throughput, scalable processing.
- Containerized the full system using Docker Compose, ensuring reproducible deployments with structured logging, monitoring, and professional architecture including service layers and dependency injection.

Research Publication

RADGEN | *Automatic Radiology Report Generation Using Transformer with Contrast-Based Image Enhancement* [On-Going]

- Developing an system framework for automated radiology report generation that integrates transformer-based encoder–decoder models with contrast enhancement (Gamma Correction), leveraging ChexNet, BERT, and Multi-Head Attention to achieve a 15% improvement in BLEU-4 scores over CNN–LSTM baselines.

Technical Skills

Coding Languages: Python , java , C , R.
ML Frameworks: TensorFlow, Scikit-learn, Keras, Pandas, NumPy, SciPy, Tkinter, Flask, Streamlit,
Data Tools: Mongodb, Postgresql , AWS S3.
DevOps and Deployment: Git& GitHub, VS Code, Docker , kafka , redis.
Certifications: Generative AI, Python Essentials 1, Deep Learning Fundamentals, GenAI Job Simulation, TCS iON Career.