

ROOPENDRA MARDALA

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Objective

Aspiring Data Scientist skilled in Python, SQL, ML, and deep learning. Passionate about deploying scalable AI models and collaborating on real-world problem solving. Eager to apply MLOps practices for reliable model deployment and monitoring, and to contribute to innovative projects in NLP, predictive analytics, and intelligent automation.

Technical Skills

- **Programming:** Python, C, SQL
- **Data Analytics & Visualization:** Pandas, NumPy, Matplotlib, Seaborn
- **Machine Learning & NLP:** Scikit-learn, TensorFlow, Hugging Face Transformers
- **Computer Vision & Deep Learning:** OpenCV, CNNs, Transfer Learning
- **Statistical Analysis:** Hypothesis Testing, Regression, Clustering
- **MLOps Tools:** Docker, Kubernetes, MLflow, DVC, GitHub Actions, Prometheus, Grafana
- **Deployment:** FastAPI, Streamlit

Education

- **B.Tech, CSE** — RGUKT RK Valley, AP 2022–2026 (Exp.)
CGPA: 9.01 / 10
- **Pre-University Course (PUC)** — RGUKT RK Valley, AP 2020–2022
CGPA: 9.77 / 10

Projects

Data Science

- **Customer Sentiment Analysis** — Analyzed 50k+ customer reviews using Python (Pandas, NLTK) and SQL for data cleaning. Built sentiment classification models to predict customer sentiments and extract actionable business insights.

Natural Language Processing (NLP)

- **Fake News Detection (99.6% Accuracy)** — Developed a DistilBERT-based NLP model for fake news classification. Conducted EDA, feature engineering, and model evaluation. Deployed via Streamlit for real-time classification.
- **Resume Analyzer Web App** — Built an AI-powered application for resume parsing, job matching, and candidate insights. Backend with FastAPI, MongoDB Atlas, and NLP-based analysis using Hugging Face; frontend built in React + TypeScript with dashboards and role-based access.

Machine Learning & MLOps

- **Sentiment Analysis (MLOps Pipeline)** — Built sentiment classification models using Logistic Regression and Random Forests. Designed and implemented an MLOps workflow including SQL-based ETL, Docker image creation and push to registry, Kubernetes deployment, and real-time monitoring using Prometheus and Grafana.

Certifications & Achievements

- **Certifications:** Machine Learning (freeCodeCamp), AI & NLP, Generative AI (Infosys Springboard).
- Achieved **99.6% accuracy** in Kaggle Fake News Detection Challenge.
- Delivered a technical session on **Data Visualization & Statistical Analysis**.
- Research on **enhancing microservices performance** using caching and batching.
- Served as **CDPC Coordinator**, organizing 5+ placement readiness and career sessions.