MANISH KUMAR DEVARSHETTY

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EDUCATION

Vardhaman College Of Engineering   Hyderabad, Telangana
B.Tech in Computer Science Engineering (AI & ML)   *Nov, 2021 - May, 2025*
CGPA: 8.04

PROFILE SUMMARY

B.Tech in Computer Science with a specialization in AI & ML, experienced in building software and data-driven solutions. Skilled in programming, cloud platforms, and end-to-end application development, with a strong foundation in analytics, system design, and scalable backend/frontend solutions. Adept at collaborating in Agile environments, solving complex problems, and delivering impactful results.

SKILLS

- **Programming & ML:** Python, SQL, KQL, Java, JavaScript, Deep Learning, NLP, Generative AI (GenAI)
- **Frontend & Backend:** React.js, Flask/Django, REST APIs, MySQL, DynamoDB
- **Cloud & Tools:** Azure, AWS, Elasticsearch, Elasticache, Kafka (basics), SQS, Git
- **Data Visualization:** Power BI, Tableau, PowerApp
- **Core Concepts:** OOP, System Design, Data Modeling, API Development, Scalability
- **Soft Skills:** Collaboration, Problem Solving, Technical Communication

WORK HISTORY

Salesforce | Software Developer Intern (Virtual)

Sep 2023 – Nov 2023

- Developed Salesforce workflows to automate daily reporting tasks, reducing manual effort by 30%.
- Created and maintained dashboards in Tableau and Power BI, ensuring accurate, real-time insights.
- Implemented data integrations using lightning components and configuration tools to meet business requirements.
- Collaborated in an Agile team environment, conducting code reviews, deploying updates via Git, and resolving issues efficiently.

PROJECTS

Smart Agriculture Monitoring System & Crop Prediction | GitHub Link

2024 | Python, MySQL, AWS, Tableau

- **Problem Statement:** Farmers lacked real-time insights into crop health and yield prediction, causing inefficient resource allocation.
- **Proposed Solution:** Built a scalable AWS backend to ingest and process IoT-based agricultural data. Developed RESTful APIs with caching and analytics pipelines, and integrated predictive models for crop yield forecasting.
- **Impact:** Attained over 80% prediction accuracy. Planned and executed interactive dashboards for farmers and decision-makers to optimize crop planning and resource usage.

Fraud Detection System | GitHub Link

2024 | Python, XGBoost, SHAP, LIME, SMOTE, Power BI

- **Problem Statement:** Organizations needed a robust system to detect fraudulent claims using structured, unstructured, and behavioral data.
- **Proposed Solution:** Applied a fraud detection system combining XGBoost for classification, feature engineering (policy duration, NLP-based text features, behavioral biometrics), and class imbalance handling using SMOTE. Incorporated explainable AI techniques using SHAP and LIME for model interpretability.
- **Impact:** Accomplished ~92% accuracy, with comprehensive evaluation metrics (confusion matrix, ROC & precision-recall curves). Enabled stakeholders to understand key fraud drivers and make informed decisions.

CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate.
- Career Essentials in Data Analysis – Microsoft & LinkedIn.
- Introduction to MongoDB for Students - MongoDB University.

POSITIONS OF RESPONSIBILITY

- **Vice Chair**, IEEE Computer Society, Vardhaman Student Branch, 2024.
- **President**, Photography Club, Vardhaman College, 2024.