Manoj Ram Mopati

LinkedIn | Portfolio

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Profile

MSc Data Science student at Coventry University seeking a Data Science Internship to apply 3+ years of experience in data analysis, statistical modeling, and delivering business insights. Previously held the role of Software Quality Engineer at Infosys, where I initially supported a client-facing regression test analysis team in my early tenure before transitioning into a Data Analyst position for over 3 years. Skilled in SQL, Power BI, Python, and PySpark within Azure ecosystems. Proven ability to deliver dashboards, automate reporting, and collaborate with cross-functional teams in fast-paced environments.

Education

M.Sc Data Science, Coventry University – Coventry, UK
Expected May 2026
Key Modules: Machine Learning, Deep Learning, Big Data Analytics, Data Visualization, Principles of Data Science, Neural Networks, Probability & Statistics, Data Management Systems, Programming for Data Science.

B.Tech in Mechanical Engineering, JNTU Anantapur – India
July 2017 – June 2021 | 6.60 GPA

Professional Experience

The Infosys Ltd, Bangalore, India
Client Role: Data Analyst | UK Insurance Project | Feb 2022 – May 2025

- Extracted, transformed, and analyzed over 10M rows of policy and claims data using Oracle SQL and PySpark in Azure Databricks.
- Designed and deployed Power BI dashboards for 5 business units, enabling real-time insights and improved decision-making.
- Automated 4+ reporting pipelines, reducing manual reporting workload by 50%.
- Conducted root-cause analysis of anomalies, enhancing data integrity and reporting confidence by 20%.

- Collaborated with cross-functional teams including Business Analysts and Scrum Leads to present insights in sprint reviews.
- Used Azure DevOps to manage analytics tasks within Agile sprints, aligning deliverables with product KPIs.
- Improved dashboard responsiveness by 30% through optimized data models and Power BI performance tuning.
- Delivered actionable insights to non-technical stakeholders, supporting business strategy discussions.
- Recognized as a key contributor in the client analytics team and entrusted with advanced data responsibilities.

Freelance Key Projects

- Enterprise Customer Churn or Retention Analytics Platform
    - Developed production-ready ML web application achieving 99%+ accuracy in customer churn prediction using Random Forest on 440K+ telecom customer records.
    - Built end-to-end MLOps pipeline with FastAPI, Docker containerization, GitHub Actions CI/CD, and Azure Container Apps deployment.
    - Implemented comprehensive data preprocessing and model comparison framework testing XGBoost, LightGBM, SVM achieving consistent 99%+ ROC-AUC scores.
    - Created dual-interface system with FastAPI REST API and web UI enabling both batch processing and real-time predictions for business users.
    - Tools : Python, Scikit-learn, Pandas, NumPy, XGBoost, LightGBM, Matplotlib, Seaborn, FastAPI, Uvicorn, Jinja2, Pydantic, Docker, GitHub Actions, Azure Container Apps, Docker Hub, Pytest, Jupyter Notebook, Git, VS Code, Postman Endpoint Testing.
- Agriculture Disease Detection System
    - Developed and deployed a deep learning model using TensorFlow/Keras to classify potato leaf diseases (Early Blight, Late Blight, Healthy) from images, achieving high prediction accuracy through extensive data preprocessing and model optimization.
    - Built a user-friendly web application with Streamlit, enabling real-time image upload and instant disease diagnosis for end-users, including farmers and agricultural professionals.
    - Designed and implemented a FastAPI backend for scalable RESTful prediction services, integrating the trained model and supporting cross-platform access via API endpoints.

    - Utilized a large, labeled PlantVillage dataset, applied advanced computer vision techniques (OpenCV, PIL), and followed best practices in model evaluation, deployment, and user experience to deliver a robust, production-ready solution.
    - Tools: Python, EDA, Visualization, Deep Learning, Convolutional Neural Networks-CNN, TensorFlow, Keras, Scikit-learn, Numpy, Pandas, SciPy, OpenCV, Pillow, Matplotlib, Seaborn, Streamlit, FastAPI, Uvicorn, Requests, threading, PlantVillage dataset.

- COVID-19 Impact Dashboard

    - Designed an interactive dashboard in Power BI using global COVID-19 datasets.
    - Integrated with web APIs for live updates and visualized region-specific trends.
    - Tools: Power BI, REST API, Excel, DAX

View more Projects on Machine Learning, Deep Learning, NLP and Other in my portfolio link.

Technical Skills

Programming and Scripting: Python, SQL, PySpark, Bash, Git, GitHub, HTML.

Data Science and Analytics Tools: VS Code, Azure AI Machine Learning Studio, Google Colab, Jupyter Notebook, JupyterLab, Anaconda, Pandas, Numpy, Scikit-learn, SciPy, Matplotlib, Seaborn, Tensorflow, Keras, PyTorch, Sweetviz, Ydata-profiling, Jinja2, Pydantic.

Machine Learning and Deep Learning and AI: Logistic Regression, Linear Regression, Random Forest, XGBoost, LightGBM, SVM, KNN, Decision Trees, GBDT, Clustering, Time Series, CNN, GLM, NLP, Voting Regressor Ensemble.

Data Visualization Tools: Microsoft Power BI, Excel (pivot tables, VLOOKUP, macros, power query).

Cloud and Development Platforms: Microsoft Azure, Azure Devops, Azure Databrics, Docker, Docker Hub, Streamlit Community Cloud, Agile, Streamlit, AWS(basics), MLOps, Github.

Soft Skills: Communication, Teamwork, Analytical Thinking, Problem Solving, Adaptability.