

Manoj Ram Mopati

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Profile

Creative and solution-oriented data science M.Sc student with hands-on experience in data exploration, transformation, cleaning, manipulation, eda, statistical analysis, drawing business insights. Previously worked as a data analyst for a UK insurance project where-while formally designated as a software quality engineer at infosys. Experienced in recognizing business trends, building analytical insights and dashboards for cross-functional teams. Proficient in implementing end-to-end data pipelines and ensuring reliable automation and seamless deployment. An effective collaborator with excellent written and verbal articulation skills. I'm seeking an opportunity to showcase abilities in a growing company and am focused, adaptable, and a flexible self-starter who works independently and responds quickly to the changing needs of the organization.

Professional Experience

DATA ANALYST | INFOSYS LTD | FEBRUARY 2022 – MAY 2025

- Extracted, transformed, and analyzed 10M+ rows of policy and claims data using Oracle SQL Developer and PySpark in Azure Databricks and Azure Synapse SQL for advanced data wrangling, exploratory data analysis through Medallion Architecture and generated advanced visualization insights and dashboards for functional teams.
- Designed and deployed interactive Power BI dashboards sourced from Azure Data Lake storage gen2 and Synapse Serverless SQL Endpoint providing real-time insights and decision making to five business units.
- Automated 4+ data pipelines using Azure Data Factory and Databricks and Azure Synapse analytics workflows, reducing manual reporting effort by 50% and enhancing scalability.
- Conducted root cause analysis of data anomalies using Pyspark and SQL, improving data integrity and stakeholder trust by 20%.
- Collaborated with Business Analysts and Scrum Leads across international teams to present insights during Agile sprint reviews and planning sessions.
- Managed analytics tasks with Azure DevOps, aligning backlog items to sprint goals and ensuring delivery of KPIs through Agile methodology.
- Improved Power BI dashboard responsiveness by 30% through optimized data model optimization and DAX tuning, leading to faster load times and better user experience.
- Recognized as a key contributor in the client analytics team, often assigned with ownership of high impact data workflows and solution delivery.

Freelance Key Projects

Enterprise Customer Churn or Retention Analytics Platform

- Developed production-ready ML web application with 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 and tested endpoint in Postman.

Agriculture Disease Detection System

- Implemented 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.
- Analysed 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.

Created a comprehensive portfolio showcasing projects on Finance, Health, Farming, Retail, Movie etc, accessible at: <https://manojram7.github.io/RamMopatisPortfolio/>

Technical Skills

Programming & Query Languages: Python, PySpark, SQL, R.

Visualization: Power BI, Databricks Visualizations, Azure Synapse analytics Microsoft Excel, including Pivot Tables, VLOOKUP, Macros, Power Query, DAX.

Data Analytics & Cloud: Azure Data Factory, Medallion Architecture, Azure Data Lake Storage Gen2, Azure Blob storage, Azure Databricks, Oracle SQL Developer, Azure DevOps, Synapse serverless SQL Pool.

Data Science Tools: Azure AI/ML Studio, Visual Studio, Google Colab, Github code versioning, Github actions CI/CD, MLOps, Jupyter Notebooks, Docker Containers, Docker Hub, Azure web apps and Container apps, R Studio, Uvicorn, Fastapi, Restapi, HTML, CSS, Streamlit Cloud, Postman API end Point testing.

Machine Learning & Deep Learning: Random Forest, XGBoost, LightGBM, CatBoost, Support Vector Machines (SVM), Logistic Regression, Linear Regression, K-Nearest Neighbours (KNN), Decision Trees, Gradient Boosting (GBDT), Convolutional Neural Networks (CNNs), Neural Networks, Tensorflow /Keras models, PyTorch Models, Voting Regressor, Ensemble Modeling, Clustering, Time-series Analysis, GLM, Natural Language Processing (NLP).

Soft Skills: Articulate Oral and Written Communication, Multi-tasking in fast-paced Environments, Analytical Abilities, Problem Resolution, and Decision-Making, Strong collaboration skills.

Education

- Master of Science in Data Science | May 2025 - Present (Expected July 2026) | Coventry University – Coventry, United Kingdom.
Modules: Principles of Data Science, Programming for Data Science, Machine Learning, Deep Learning, Big Data Analytics, Probability and Statistics, Data Management System, Deep Learning, NLP.
- Bachelor of Technology in Mechanical Engineering | July 2017 - June 2021 | 6.60 gpa (1:1 Honours) Jawaharlal Nehru Technological University Anantapur, AP, India.