Manoj Ram Mopati

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Profile

Creative and solution-oriented data Science Master's student with hands-on experience in data modeling, manipulation statistical analysis and drawing insights. Experienced in recognizing sales trends and building predictive models, insights tools for consumer products and retail industries. A strong background in machine learning techniques and algorithms, and computational statistics. Proficient in implementing end-to-end machine learning pipelines and Authored seamless deployment through MLOps practices. A team player with excellent written and verbal communication skills. I am seeking an opportunity to showcase my abilities in a growing company. I am focused, adaptable, and a flexible self-starter who works independently and responds quickly to the changing needs of the organization.

Professional Experience

DATA SCIENTIST | INFOSYS LIMITED | JANUARY 2023 – MAY 2025

- Extracted, transformed, and analyzed over 10M+ rows of healthcare policy, claims, provider, and member data using Oracle SQL and Azure Databricks, delivering insights that improved healthcare service delivery and claims operations.
- Designed and deployed Power BI dashboards for Claim, Policy, Provider Networks, and Member data, for enabling underwriters, claim teams, and operations managers to monitor fraud risk, claim turnaround times, customer retention, and provider utilization, reduced manual reporting time by 40%.
- Improved Power BI dashboard responsiveness by 30% through optimized data models and DAX tuning, ensuring faster insights and higher adoption across healthcare business units.
- Built and Proposed fraud detection models that flagged high-risk claims, reducing potential fraudulent payouts by ~£2M annually and strengthening compliance with healthcare regulations.
- Partnered with healthcare analysts to design predictive health outcome models (hospitalization and readmission risk scoring), supporting member wellness programs and reducing readmissions by 10% in pilot projects.
- Applied NLP techniques on customer service transcripts and member feedback to identify pain points, improving call-Centre resolution times by 15% and enhancing overall member experience.
- Created end-to-end machine learning pipelines using Azure Databricks, Azure Data Factory, Azure Data Lake, and Azure DevOps, ensuring scalability and governance in line with healthcare data regulations.
- Reviewed reporting processes and implemented automation solutions, freeing up teams to focus on strategic healthcare initiatives.
- Delivered projects through Agile methodology, managing daily scrums, sprint planning, backlog prioritization, and KPI reporting via Azure DevOps.
- Collaborated with cross-functional teams of data scientists, data engineers, product owners, and healthcare analysts to deliver high-impact machine learning solutions for insurance and member wellbeing.

Jr. DATA SCIENTIST | INFOSYS LIMITED | FEBRUARY 2022 – JANUARY 2023

- Wrote complex SQL queries and Python/PySpark scripts for data cleansing, feature engineering, and large-scale analysis of policy, claims, member, and provider datasets.
- Developed and containerized policy renewal and churn prediction models (Python, PySpark, Docker), flagging high-risk customers based on lapse history, claims behavior, and service interactions. These insights enabled targeted retention campaigns, improving renewal rates.
- Defined claims analytics dashboards in Power BI, providing visibility into fraud patterns, provider utilization, claim inflation, and high-value claims, supporting executives in risk and cost management.
- Deployed machine learning models into production with Azure ML and Databricks, ensured seamless

integration into claims systems and customer service workflows.

Skills

Programming Languages: Python, R, PySpark, SQL

Data visualization & Reporting: Power BI, looker Sudio, Tableau, Microsoft Excel, including pivot tables, v-lookups, macros.

Machine Learning & Analytics: Logistic/Linear Regression, Decision Trees, Random Forest, Gradient Boosted Trees, Time Series Forecasting, GLMs, Clustering (K-Means, Hierarchical), KNN, Naïve Bayes — applied to fraud detection, churn/renewal prediction, and health risk scoring.

Cloud platforms & MLOps: Microsoft Azure (Databricks, Data Factory, Data Lake, Azure ML, Azure DevOps), Docker, GitHub — end-to-end ML lifecycle management with CI/CD, version control, experiment tracking, and production deployment.

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

Other Tools/Skills: GitHub, Anaconda, Jupyter Notebooks, R-studio, Visual studio, classification, deep learning models, agile, version control, experiment tracking, code review, NLP, A/B testing, six-sigma approach, Google Analytics, Databricks, ContentSqure, MLOps.

Education

- Master of Science in Data Science | May 2025 - May 2026 | Coventry University – Coventry, United Kingdom.

  Modules: statistical machine learning, data analysis, data science programming, probability & statistics, neural networks.

- Bachelor of Technology in Mechanical Engineering | July 2017 - June 2021 | 64% (1:1 Honours)

  Jawaharlal Nehru Technological University - Anantapur, Andhra Pradesh, India.