

# PRUTHVIRAJ MOHITE.

Pune, India | 9096494865 | pruthvirajsantoshmohite@gmail.com [LinkedIn](#) | [Portfolio](#)

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## PROFILE

Results-driven Data Scientist with 3+ years of experience, specializing in machine learning, deep learning, generative AI, data analysis, visualization, and automation. Skilled in building enterprise-grade dashboards, optimizing data workflows, and delivering actionable predictions to support business intelligence and strategic decision-making.

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## SKILLS

- AI Capability: Lang chain, llama index, vector databases ,Machine learning, Deep Learning (Tensor flow),NLP, Generative AI (GPT, Hugging face, Lang chain , Prompt Engineering)
  - Programming & Analytics: Python (Pandas, Scikit-learn, Tensor Flow, keras,Matplotlib,Seaborn), MSSQL,PowerBI
  - Web & App Development: React, HTML, CSS, Node js.
  - Other tools & Platform – VS-Code, Jupyter Notebook, Google Colab, Github, Azure
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## EXPERIENCE

MDIndia Health Insurance TPA Pvt. Ltd. | Pune, India

Jun 2022 - Present

### Team Lead – Information & Analytics Engineering

- Implemented Lang chain ecosystem to solve pseudo industry problems such as policy comparison, claim evaluation
  - Performed **exploratory data analysis (EDA)**, outlier detection, and data cleaning using **statistical methods** .
  - Evaluated Machine learning models using standard metrics such as ROC-AUC and cross-validation.
  - **NLP solutions** using **NLTK** for text preprocessing and sentiment analysis
  - Developed deep learning models including **RNN, and LSTM** using **TensorFlow/Keras** for time series and sequence modeling project
  - Developed and deployed interactive **Power BI dashboards** for operational and financial reporting, integrating data from SQL Server, Schedule refreshes, RLS, Modelling, DAX measures.
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## PROJECTS

### 1) Insurance Fraud/Abuse Prediction

- Built an end- to- end fraud detection pipeline for insurance claims provided with claim scenarios. Covering data cleaning ,EDA, encoding/ derived encodings and clustering algorithms to detect fraud/Abuse cases (best fit model – Cat boost /Random forest)
- Daily tracking of the predictions and highlighting the risky claims to the IFD team in reducing the undetected fraud.

### 2) Policy Comparison Bot

- Developed a context-aware policy comparison chat-bot leveraging Lang chain, Hugging face Embedding's enabling accurate retrieval based QA with a 93% average response relevance across the pdfs.
- Architected an end to end pipeline with a document chunking, semantic vectorization and source – linked answer generation reducing the manual policy comparison.
- Integrated Open source LLMs to simulate production- grade RAG workflows, enhancing scalability for better policy choice according to users perspective.

### 3) Analytical Dashboards | Power-BI, MSSQL, DAX, M-Query

- Developed interactive Power BI dashboards to visualize policy performance, premium collections, and claims analytics across multiple brokers, enabling data-driven decision-making and performance monitoring.
  - Optimized complex SQL queries and stored procedures to efficiently process and transform large-scale insurance datasets, improving data refresh speed and backend performance.
  - Designed robust data models with calculated columns, DAX measures, and dynamic relationships to support flexible cross-filtering, drill-through analysis, and self-service BI capabilities.
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## EDUCATION

- ❖ **MBA (Information Technology and Systems Management) NMIMS Mumbai (Rank – 74)**
  - ❖ **B.Tech (Mechanical) Vishwakarma University, Pune (7.43 CGPA)**
  - ❖ **HSC Aabasaheb Patil Jr. College Kolhapur (74.8%)**
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## CERTIFICATIONS

- ❖ Microsoft Certified: AI-900 Azure AI Fundamentals
- ❖ Microsoft Certified: AZ-900 Azure Fundamentals
- ❖ Microsoft Certified: PL-300 Power BI Data Analyst