Mohammadazar Pathan

Data Scientist
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🌐 Navi Mumbai, Maharashtra

Professional Summary

Data Scientist with *5+* years of experience in delivering actionable business insights through **machine learning, forecasting, deep learning, LLMs, GenAi, and NLP solutions**. *Skilled in developing scalable* **data pipelines, deploying predictive models, and building intelligent systems across telecom, retail, and HR domains**. *Expertise in* **Python, ML frameworks, and cloud-based data solutions**.

Professional Experience

Reliance Jio, Navi Mumbai

Role: **Data Scientist** *| Duration: Mar 2023 – Present*
- *Developed and* **deployed predictive modeling** *and* **clustering solutions** *for business use cases.*
- *Built scalable data analytics engines for* **telecom**, **e-commerce and Retail** *applications.*
- *Integrated* **Prophet and XGBoost** *for multi-scale forecasting tasks across pin codes.*
- **Deployed GenAI pipelines for text summarization and call center analysis** *using Whisper + Mistral.*
- *Worked on* **OpenCV, scikit-image, TensorFlow, scikit-learn, NumPy, pandas, matplotlib, PySpark** *,* **Airflow, Transformers , LLMs And Databricks**

Cybage , Pune

Role: **ML Engineer** *| Duration: Dec 2019 – Mar 2023*
- *Built and deployed end-to-end* **machine learning pipelines***.*
- *Applied advanced* **ML techniques** *for Classification and Regression problems.*
- *Worked on* **OpenCV, scikit-image, TensorFlow, scikit-learn, NumPy, pandas, matplotlib and PySpark**

Technical Skills

- *Languages:* **Python, R, PySpark**
- *ML Techniques:* **Regression, Classification, Clustering (K-Means), Decision Trees, Lasso, Ridge**
- *NLP Tools:* **NLTK, KeyBERT, Transformers, Whisper**
- *Frameworks & Tools:* **Flask, Git/GitHub, Docker, TensorFlow**
- *Databases:* **MySQL, MSSQL, MongoDB**
- *Forecasting Models:* **Prophet, TBATS**
- *Cloud:* **Azure**
- *Others:* **APIs, DSA, FAISS, OpenCV**

Key Projects

1. **Account Clustering using Customer Behavior**: *Detected duplicate accounts via behavioral pattern clustering and keyword extraction.*
   Tools: Python, scikit-learn, KeyBERT, NLTK
2. **Keyword Extraction from PDP (LLM-Powered)**: *Generated metadata keywords for 1.2M+ SKUs, enhancing product discovery and SEO.*
   Tools: KeyBERT, Transformers, Pandas

1. **HR Attrition Prediction**: Used XGBoost, CatBoost, LightGBM and AutoML to predict attrition.
   Tools: Python, XGBoost, CatBoost, LightGBM
2. **Hourly Forecasting Pipeline (Live)**:Built a production-grade rolling hourly forecast system using Prophet & TBATS.
   Tools: **Prophet, Numpy, Matplotlib, Pandas, Databricks**
3. **Pincode-Level Monthly Forecasting**:Forecasted order volumes across 10+ pin codes using XGBoost + Prophet.
   Tools: **Prophet, XGBoost, Pandas, Databricks**
4. **Audio Analysis with Gen AI**:Converted call center audio to text and summaries using Whisper and Mistral-7B.
   Tools: **Whisper, Mistral, DAG, SAP HANA, LLMs**
5. **Face Verification for KYC**:Used RetinaFace + ArcFace + FAISS for scalable facial KYC matching.
   Tools: **FAISS, MTCNN, CLAHE, DeepFace, Docker**
6. **Blurred Image Quality Detection**:Scored and filtered 1000+ daily KYC images in real time using blur and entropy metrics.
   Tools: **OpenCV, PIL, TensorFlow, Databricks**
7. **Competitor Image Recommendation Engine**:Recommended matching SKUs using ResNet50 + distance-based embedding matching.
   Tools: **ResNet50, KNN, Cosine Similarity, Databricks**
8. **Warehouse Image Placement Recommender**:Identified misplaced warehouse items via CNN feature comparison with catalog images.
   Tools: **OpenCV, ResNet50, scikit-learn, NumPy,Databricks**

Education

- Bachelor of Engineering – Pune University, 2018
- HSC (12th) – De Paul Junior College, Rahuri ,2013
- SSC (10th) – SCSH, Shrishivajinagar , 2011

Strengths

- Strong **Python and machine learning foundations**
- Experience in **GenAI and LLM-based pipelines**
- Skilled in **designing scalable analytical systems**
- Strong **data visualization and business insight skills**

Personal Details

- Date of Birth: 17-Apr-1996
- Languages Known: English, Hindi, Marathi
- Hobbies: Sketching
- Marital Status: Married