ADITYA SHARMA

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SKILLS

Progamming & Scripting languages:	Python, bash
Frameworks & libraries	Pyspark, Flask, Scikit-learn, Numpy, Pandas,Tensorflow
DataBases:	SQL, PostgreSQl, MongoDB
Data Visualization:	Power BI, Matplotlib, seaborn
Machine Learning:	Supervised learning, Statistical modeling, Feature engineering, Hyperparameter tuning, NLP(Natural language processing)
Cloud Platforms:	Microsoft Azure , AWS
Containers & DevOps:	Docker, Git, GitHub

WORK EXPERIENCE

Project-Based Professional   Oct 2024 - Aug 2025
Abha Technologies (TBR)   *Remote*
MAXRay - AI agent for XRay Image Recognition, Enhancement and Consultation

- Conducting R&D for an **ISO13485**, **ISO26262** compliant multi-platform healthcare solution (web, mobile, desktop) integrated with hardware.
- Designing a scalable, secure platform architecture with private cloud infrastructure, using **Python (Flask)** for backend services and **RESTful APIs**, and **PostgreSQL** and **Redis** for data storage and caching.
- Developing a proprietary AI agent for on-device image recognition and enhancement.
- Building responsive and intuitive user interfaces with **React**, while exploring IoT integration and secure communication protocols to drive healthcare innovation.

Project-Based Professional   Feb 2024 - July 2024
GenAI based Translation and Summarization Tool   *Remote*

- Developed a LangChain-based **RAG Application** with Fine-tuned LLaMA3.1 Model using a locally fine-tuned LLaMA3.1 model trained on custom textual data from pdf, csv files.
- Integrated the llm model into **LangChain**, enabling advanced NLP tasks such as **translation & summarization**.
- Optimized the application for local deployment and efficient language processing.

Associate Engineer   July 2022 - Oct 2023
ATCS - A Nagarro company   *Jaipur, Raj, IN*

- Developed & optimized ETL pipelines using **Azure Data Factory**, **PySpark**, and **PostgreSQL** for large-scale data processing.
- Worked on **Azure Synapse** & **DataBricks** to transform, enrich, and analyze data from multiple sources.
- Collaborated with cross-functional teams to implement secure, privacy-compliant APIs following industry best practices.

Data Science Intern   Jan 2022 - July 2022
ATCS - A Nagarro company   *Jaipur, Raj, IN*

- Contributed to a project as a **Data engineer**, aimed at surpassing open-market alternatives through statistical analysis and **machine learning techniques**, we engineered pricing strategies to elevate client sales.
- Seamlessly integrated various data sources, leading to creation of data mart.
- Played a pivotal role in statistical analysis on large datasets and collaborative machine learning solution development.

PROJECTS

- **GST analytics:** Developed a robust machine learning model for GST analytics using **XGboost** and **Deep Reinforcement Learning for Imbalanced Classification problem**. Implemented various machine learning and deep techniques to Achieve optimized ML model.

- **Quora Duplicate Question detection:** Developed and trained an **NLP** model to detect duplicate questions with 75% accuracy using a **Random Forest classifier**. Integrated the solution into a backend service using **FastAPI** and deployed it using **Docker** and Kubernetes. Focused on enhancing the model's performance by applying **text preprocessing, feature extraction, and hyperparameter tuning.**

EDUCATION

- **B.Tech, Information Technology**   **2018-2022, Jaipur, Rajasthan, IN**
  Swami Keshwanand Institute of Technology, Management and Gramothan