

# ADITYA SHARMA

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## SKILLS

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<b>Programming &amp; Scripting languages:</b>	Python, bash
<b>Frameworks &amp; libraries</b>	Pyspark, Flask, Scikit-learn, Numpy, Pandas
<b>DataBases:</b>	PostgreSQL
<b>Data Visualization:</b>	Power BI, Matplotlib, seaborn
<b>Machine Learning:</b>	Supervised learning, Statistical modeling, Feature engineering, Model evaluation and validation, Hyperparameter tuning, Natural language processing
<b>Cloud Platforms:</b>	Microsoft Azure (Data Lake Storage, ADF, DataBricks)
<b>Containers &amp; DevOps:</b>	Docker, Git, GitHub

## WORK EXPERIENCE

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**Project-Based Professional** Oct 2024 - Present  
**MAXRay - AI agent for XRay Image Recognition, Enhancement and Consultation** *Remote*

- 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 for efficient data management.
- Developing a proprietary AI agent for on-device image recognition and enhancement.
- Exploring IoT, AI/ML, 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

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- **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

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

## EXTRA-CURRICULAR ACTIVITIES

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- Hackathons: Participated in Amazon ML hackathon 2022
- WorkShops: participated in IOT workshop 2020, Built a path finder robo using adruino.