

# ADITYA SHARMA

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## EDUCATION

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

## SKILLS

<b>Programming &amp; Scripting languages:</b>	Python, bash
<b>Frameworks &amp; libraries</b>	Pyspark, Flask, Scikit-learn, Numpy, Pandas, DataBricks
<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, Blob Storage, ADF)
<b>Containers &amp; DevOps:</b>	Docker, Git, GitHub

## EXPERIENCE

**Project-Based Professional** Feb 2024 - July 2024  
Self-Employed(Freelance) *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 backend services using Python and Flask, Utilized **SQLAlchemy** and **PostgreSQL** to manage databases and optimize query performance.
- Worked extensively with **PySpark** and **NumPy** for large-scale data processing and analysis.
- 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**.

## EXTRA-CURRICULAR ACTIVITIES

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