

# Saif Mohammed

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## Education

**BE**    **Osmania University**, Computer Science    Hyderabad, IN  
Apr 2021 – May 2025

## Experience

**Rootz Communication**, Junior Machine Learning Engineer    Riyadh, SA  
Aug 2024 – Aug 2025  
1 year 1 month

- Built an automation software for inventory management which processed incoming purchase orders.
- Engineered an NLP pipeline using Logistic Regression to automate the classification of high-volume procurement emails, improving inventory processing efficiency
- Streamlined inventory management and report generation process.

**YHills**, Machine Learning Intern    Hyderabad, IND  
Feb 2024 – Apr 2024  
3 months

- Engineered a video recommendation system at an Educational Tech platform.
- Used ContextVectorizer, Pandas, Numpy and cosine-similarity to make the recommendation engine.

**Open-source**, Contributor    Remote  
May 2024 – present  
1 year 8 months

- Contributed to several Open-source repositories: Kestra-io, OpenLibrary, Dodo Payments, Apache Airflow and more.
- Worked on enhancing exception handling flows, improving error diagnostics, masking sensitive data and adding new features.

## Projects

### arXiv Research Assistant

Artificial Intelligence Research Automation Software

- Used Google-ADK to build a multi-agent sequential Artificial Intelligence model.
- Fetches latest research papers from arXiv website on desired Topics and makes a summary of latest advancements.

### Retail Radar

A smart multi-agent dynamic pricing tool

- Built using Google-ADK, Python and SerpAPI.
- fetches 10+ listings of the said product, computes the market average price of the products fetched.

### Wordsmith

Fine-Tuned Gemma Model

- Built using Gemma open weights, Python, Parameter efficient Fine-Tuning (PEFT) and more.

### Diabetes Prediction Model

Machine learning model to predict whether patient has diabetes or not using various parameters.

- Used multiple machine learning algorithms like Neural Networks, K-Nearest Neighbors, Logistic Regression and more.

## Skills

**Languages:** Python, JavaScript, TypeScript, Java, Lua, HTML, CSS, SQL

**Frameworks & Libraries:** PyTorch, TensorFlow, Scikit-Learn, Pandas, Numpy, Flask, Django, React.js, Next.js, Node.js, XGBoost, Random Forest

**Infrastructure:** Faiss, ChromaDB, MongoDB, AWS, GCP, PostgreSQL, MySQL, SSMS, Docker, FireBase, Git, Linux

## Certifications

**Scientific Computing with Python:** Charles Severance

**Agents Intensive Multi-Agent Course:** Kaggle