

# Ameer Sohail Shaik

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## EDUCATION

### Vellore Institute of Technology, AP

Bachelor of Technology in Computer Science and Engineering

Amaravathi, AP

2020 - 2024

## EXPERIENCE

### Machine Learning Engineer

Proceedit - (Remote)

August 2024 – Present

Barcelona, Spain

- Designed and implemented advanced time-series forecasting models using ARIMA, SARIMAX, LSTM, and Transformer architectures, achieving a 98% accuracy rate for corrected target prices. This enabled actionable financial insights and supported strategic decision-making, enhancing predictive capabilities and informing investment strategies.
- Automated the updating of critical data in spreadsheets responsible for running trading ML bots, reducing the update time from over 1 hour to just 2 minutes. This optimization significantly improved operational efficiency, ensuring timely data refreshes and enhancing the performance of trading algorithms.

### Machine Learning Intern

SBP Consulting Pvt. Ltd

January 2024 – May 2024

Hyderabad

- Led an innovative image-to-text conversion project that significantly improves accessibility and transforms information access.
- Deployed cutting-edge Optical Character Recognition (OCR) technology using Python and TensorFlow to meticulously extract and convert text from images with precision and efficiency
- Enhanced model accuracy and speed by 25% for text recognition. Worked with a team to integrate the solution into existing apps, improving workflows.

### Data Science Intern

Oasis Infobyte

September 2023 – November 2023

Remote

- Pioneered an advanced movie recommendation system designed to transform user experience by delivering tailor-made, engaging movie selections.
- Skillfully integrated cutting-edge collaborative filtering and sophisticated content-based filtering algorithms with Python and Scikit-learn to heighten recommendation precision.
- Expertly utilized Matplotlib and Seaborn to vividly visualize recommendation outcomes and discern user trends, creating an enriched and visually compelling narrative of user interaction.

## PROJECTS

### AutoML-ify | Python, Streamlit, Machine Learning

March 2025

- Designed and implemented AutoML-ify, an end-to-end automated machine learning application that streamlines data preprocessing, model selection and evaluation without requiring coding knowledge. This reduced the typical ML workflow time from days to minutes, automating repetitive ML tasks while maintaining model quality.
- Engineered intelligent data cleaning pipelines that automatically handle missing values, outliers, and categorical encoding, improving model performance by up to 30%.
- Furthermore, 10+ machine learning algorithms were integrated with automated hyperparameter tuning, enabling non-technical users to build production-ready models.

### Dynamic SQL Assistant | Python, Streamlit, LangChain, Groq API, SQLite, NLP

Feb 2025

- Developed a Text-to-SQL application using Streamlit, integrating LLM capabilities via Llama 3, Groq API and LangChain achieving a 95%+ success rate in translating natural language to SQL queries. This improved data accessibility for nontechnical users and improved query accuracy.
- Engineered a dynamic database creation system that automatically converts CSV datasets into queryable SQLite databases, streamlining data integration and reducing setup time by up to 90%. Additionally, implemented robust error handling for SQL queries, reducing query failures by 60% and enhancing system reliability.

**Detecting Diabetic Retinopathy using Deep learning** | *Python, Machine Learning, MySQL, HTML*    Jan 2024

- An innovative project dedicated to the in-depth analysis of diverse Diabetic Retinopathy (DR) stages utilizing the cutting-edge capabilities of Deep Learning.
- Enhanced a intuitive interface, meticulously designed to enable users to effortlessly upload retinal images for precise analysis.
- Utilized the TensorFlow and NumPy libraries to execute sophisticated image classification algorithms.
- Implemented real-time display of diagnostic results based on the uploaded image.

TECHNICAL SKILLS

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**Languages:** Python, Java, R, SQL, NoSQL  
**Developer Tools:** Jira, Git, MySQL, PostgreSQL, AWS S3, MongoDB, Jupyter Notebook, Google Colab, Firebase, Tableau, PowerBI, Matlab, Visual Studio, Microsoft Excel, Confluence  
**Libraries:** Pandas, Flask, TensorFlow, NumPy, Scikit-learn, pyTorch, Matplotlib, Streamlit

CERTIFICATIONS

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<b>Introduction to MongoDB</b> <i>MongoDB Inc. (Financial Aid)</i>	2024
<b>Introduction to Data Analytics by IBM</b> <i>Coursera</i>	2024
<b>Microsoft Azure AI Fundamentals</b> <i>Microsoft</i>	2023
<b>HackerRank Advanced SQL Certificate</b> <i>HackerRank</i>	2023