

# Mohammad Sofyan Abdullah

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## Summary

I am a Data Science undergraduate student with experience in data analysis, machine learning, and web development. I have successfully completed projects leveraging Python, neural networks, and AWS deployments. I am passionate about using my technical skills to solve real-world problems and continuously improve my knowledge in the field.

## Technical Skills

- **Programming Languages:** Python, Java, C++, JavaScript, SQL
- **Web Development:** HTML, CSS, Flask, FastAPI, Node.js
- **Databases:** Firebase, MongoDB
- **Data Science & Analytics:** Pandas, NumPy, Matplotlib, Seaborn, Excel, Power BI
- **Machine Learning & AI:** Scikit-learn, TensorFlow, PyTorch, Keras
- **NLP & LLM Tools:** Hugging Face, Transformers, LangChain, LlamaIndex
- **Cloud Platforms:** AWS, Azure

## Experience/Projects

### Data Scientist – Data Forge

May 2025 –Present

#### Data Science

- Developed a DSaaS platform enabling AI engineers to automate data life cycle.
- Created agentic workflows for web scrapping formatting data in diverse fields.
- Built RAG based models for insight generation, visualization, and model finetuning.
- Enabled one click AWS deployment for end-to-end ML workflows.

### Virtual Internship British Airways

Apr 2024 – May 2024

#### Data Analyst

- Scraped and analyzed customer reviews using Python (BeautifulSoup, NLP).
- Built a predictive model for customer booking behavior using scikit-learn.

### Backend Web Dev Intern (Startup)

June 2023 – Aug 2023

#### Web Developer

- Worked with technologies like node.js and database MongoDB to make RESTFUL API for workflow.

## Projects

### • Scholarship Finder

Generative AI, FastAPI, Grok, Tevily, Langchain, Firebase

- Developed a web-based system that uses the web to find scholarship opportunities according to the user's needs
- Integrated web search, document QA, memory and custom tools to create an end-to-end scholarship application pipeline.
- Designed and deployed a REST API backend using FASTAPI and lang serve with support for SoP generation, eligibility filtering and real time email.

- **RAG Based – BookSage**

Generative AI, RAG, FastAPI, Gemini

- Developed an intelligent book retrieval system that fetches books from the internet using ISBN input and process them using RAG.
- Integrated Google Gemini model for contextual understanding and querying.
- Enabled web search and books retrieval.

- **IMDb Sentiment Analysis:**

Hugging face, Python, Transformers, PyTorch

- Fine-tuned **bert-base-uncased** on IMDb dataset using Hugging Face **Transformers**
- Performed **data preprocessing, tokenization**, and model training with **PyTorch**
- Achieved **80%** accuracy on sentiment classification task

- **Alzheimer Disease Detection:**

Kaggle, Scikit Learn, Keras, Flask, AWS

- Using brain **MRI images**, build a neural network model to classify the type of tumor.
- Created **Convolutional Neural Networks** and **RESNET** to classify the images.
- Got **80+** accuracy on using CNN and after hyper tuning it using keras tuners increased the accuracy to **85+**.
- Created a user-friendly frontend and for prediction used backend technology **Flask**.
- Deployed the project on **AWS**.

- **Diabetic Prediction using Retinopathy images:**

Kaggle, Scikit Learn, Keras, Flask, AWS, JavaScript

- Using retinopathy, build neural network models to classify the intensity of diabetes.
- Created **Convolutional Neural Networks** and **RESNET** to classify the images.
- Got almost **80%** accuracy for the models.
- Created a user-friendly frontend and for prediction used backend technology **Flask**.
- Deployed the project on **AWS**.

- **Bangalore House Price Prediction:**

Kaggle, Scikit Learn, Flask, AWS, JavaScript

- Preprocessed the dataset for Bangalore house prices.
- Using Machine Learning models such as **linear regression** and **decision tree** to predict the price.
- Created a user-friendly frontend and used **Flask** for backend.
- Deployed the project on **AWS**.

## Courses and Certifications

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- CISCO Netacad | Introduction to Networking
- Coursera & Stanford University | Machine Learning
- AWS | Cloud Essentials
- Coursera | GenAi For Everyone

## Education

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COMSATS University, Islamabad  
*Bachelor of Science in Data Science*

Sep 2022 – Mar 2024  
CGPA 3.69  
90%