

ABDULLAHI ABDI MOHAMED

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📍 6045 Lyndale Ave S #129, Minneapolis, Minnesota 55419

📁 PROFESSIONAL EXPERIENCES

Aug 2024 — Present	Associate Software Engineer(ML/Data)	Brain Station 23 PLC
	- Developing a chatbot for a pharmaceutical company to provide drug suggestions, alternatives, dosage limits, warnings, and company-specific details. - Managing an inventory forecasting project for e-commerce companies, focusing on stock-out prevention, optimal reorder points, vendor evaluation, and product analysis.	
May 2024 — Jul 2025	Software Engineer Trainee (ML/Data)	Brain Station 23 PLC
	- Implemented two POC projects, product demand forecasting and tractor fuel consumption prediction. - Developed an LLM RAG application chatbot project that integrated multiple sources (pdf, website, sql database). - Got hands-on experience with Docker, Streamlit, FastAPI, and Azure AI services.	

🔧 SKILLS AND PROFICIENCIES

Code Languages	Python, Java, Julia	API Development	Fast API, Django Rest Framework, Flask, Celery, Redis
ML Framework	Langchain, LlamaIndex, Scikit-learn, Tensorflow, Weka, Azure AI Studio	Database	PostgreSQL, MySQL, SQLite, MongoDB
Data Analysis	Excel, SPSS, Pandas, Numpy, Scipy	Others	Agile Methodology, OOP, Clean Code, Postman, Latex, GIT
Data Visualization	Matplotlib, Seaborn, Plotly, Google Looker Studio	Soft Skill	Problem Solving, Communication, Leadership, Listening, Teamwork
Languages	Bangla, English		

🎓 EDUCATION BACKGROUND

Jan 2018 — Nov 2023	Bachelor of Science, Software Engineering	CGPA: 3.38
	Metropolitan State University	

📁 PROJECTS PORTFOLIO

May 2024 — May 2024	LLM Chatbot 🦙LLM, Langchain, PostgreSQL, Selenium, FastAPI, Streamlit
	- Designed, developed and tested the whole system. - The chatbot leverages data from multiple sources including an SQL file, a Website and a PDF Document. - Implemented router chain to route to RAG chains and response from the knowledge base.
Nov 2022 — Jun 2023	RetOPT 🐍Django/LightFM/K-means Clustering/Looker Studio
	Built an e-commerce application embedded with the novel customer segmentation-based hybrid product recommendation system.

- Implemented RFM segmentation model to segment the customers
- Proposed hybrid recommendation model that utilize transaction, product and customer features including the segmentation information
- Solved the cold start and data scarcity issues of recommendation system.

PUBLICATIONS [119 Citations]

2023	A Comparative Study of RFM-Based Clustering Methods in Customer Segmentation (IC-CIT/IEEE) -
2022	Convolutional neural network model to detect COVID-19 patients utilizing chest X-ray images (MIET/Springer) -
2021	A Comparative Machine Learning Study to Predict Drug Addiction in Bangladesh (AICT/IEEE) -
2020	Performance analysis of machine learning techniques to predict hotel booking cancellations in hospitality industry (ICCIT/ IEEE) -
2020	Predicting Infectious State of Hepatitis C Virus Affected Patient's Applying Machine Learning Methods (TENSYP/IEEE) -

CERTIFICATIONS

Jul 2021 — Dec 2021	Data Science Professional Certificate	IBM
	• Completed topics like data science methodology, analysis tools, databases and SQL, visualizations, and machine learning.	
Nov 2020 — May 2021	Full Stack Applied Data Science	Value Base Academy
	• Covered a wide variety of topics like Data Analytics/Machine Learning with Python, OpenAI, Google Bigquery, and AutoML. End-to-End Business Intelligence Pipeline with Google Data Studio. End-to-End Data Science Product with Docker, and Google Cloud Platform with hands-on projects.	
July 2024	Develop generative AI solutions with Azure OpenAI Service	Microsoft
	• Learned to build Chatbot leveraging Azure AI studio using OpenAI and other open source models.	

ACHIEVEMENTS

Mar 2021	Scientific Paper Review [A novel DeepNet model for the efficient detection of COVID-19 for symptomatic patients]
	• Biomedical Signal Processing and Control (Q1 IF: 6.77)
Dec 2020	2nd Runner Up - Hult Prize on Campus
	• Presented a blockchain-based food supply system and secured 3rd position among 53 teams on campus and attended to the Asia regional contest.

EXTRACURRICULAR ACTIVITIES

Mar 2020 — Jun 2023	IT Club, Metro State	General Secretary
May 2022 — Jun 2023	Dhrupod, Metro State	General Secretary
Mar 2022 — Jun 2023	Adventure Club, Metro State	Joint Secretary