

Mohammad Mahmud

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EDUCATION

Hunter College, City University of New York (CUNY)

Bachelors of Arts in Computer Science

Relevant Coursework: Data Structures, Algorithms, Database Management, Data Mining, Software Analysis and Design, Operating Systems, Web Development, Project Management

SKILLS

**PYTHON, JAVA, AWS, SQL, DATA ANALYTICS, DEEP LEARNING, TABLEAU, JIRA, QA AUTOMATION TESTING, GIT
AGILE, SCRUM, SPRINT PLANNING, ROADMAP DEVELOPMENT**

EXPERIENCE

Data Analytics Fellow - **COOP**, Hybrid

Jan 2025 - Present

- Cleaned and preprocessed structured and unstructured data to improve data quality for machine learning models
- Conducted exploratory data analysis to identify patterns, trends, and outliers in large datasets using Python
- Automated data extraction, transformation, and loading (ETL) processes using Python and SQL

Software Engineering Resident - **HEADSTARTER AI**, Remote

Nov 2024 - Present

- Led 14+ AI and full-stack projects, managing end-to-end product development with Agile methodologies
- Managed project timelines, sprint planning, and backlog prioritization in an Agile software development team
- Developed and deployed **Brain Tumor Classification**, an AI-powered health diagnostics tool

Data Analyst Intern - **EXTERN BEATS BY DRE**, Remote

Aug 2024 - Oct 2024

- Automated data extraction and transformation pipelines, reducing reporting time and enhancing workflow efficiency
- Processed and cleaned large datasets from multiple sources, improving data accuracy
- Analyzed interview data and survey results to create detailed reports, highlighting strategic opportunities

Software Engineering Intern - **CITY SCIENCE**, Hybrid

June 2024 - Nov 2024

- Conducted data cleaning, manipulation, and visualization using SQL, Python (Pandas, NumPy), and Tableau
- Processed and cleaned large datasets from multiple sources, improving data accuracy
- Extracted, transformed, and loaded (ETL) large datasets from multiple sources for exploratory and predictive analysis

AI PROJECTS

Customer Churn Prediction with Machine Learning

Nov 2024 - Present

- Developed and optimized multiple machine learning models to predict customer churn, achieving up to 85% accuracy.
- Utilized XGBoost, Random Forest, Decision Tree, and GaussianNB to select the best model
- Evaluated models based on precision, recall, and accuracy to select the best performing algorithm
- Built an interactive web application using Python and Streamlit to analyze individual customers churn predictions

GitHub AI Review Agent with OpenAI

Nov 2024 - Present

- Contributed to AI-powered GitHub agent that code reviews, generates feedback, and suggests improvements
- Utilized OpenAI models to improve the review by providing more context-aware, accurate feedback for pull requests
- Integrated NGROK for secure webhook communication, for reviewing pull requests in real-time
- Improved the Python parser to help the AI interpret and evaluate code functionality more effectively

Codebase RAG - AI for Code Understanding

Nov 2024 - Present

- Developed an AI-powered assistant to interact with and analyze a codebase, leveraging RAG to provide expert insights
- Implemented a web application using Streamlit to interact with codebase and answer user queries
- Integrated a feature to switch between different codebases, providing flexibility for projects with multiple repositories
- Utilized frameworks including Python, Groq, and Pinecone database for seamless integration and performance

CERTIFICATIONS

AWS Certified Solution Architect - Associate

In Progress, Expected April 2025

Google Data Analytics Certification

In Progress, Expected March 2025