

# Mohammad Mahmud

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## EDUCATION

Hunter College, City University of New York (CUNY)

Graduated: May 2022

Bachelors of Arts in Computer Science

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

## SKILLS

**Languages** Proficient Python(2yrs) · Java(1yrs) Intermediate Swift(1yrs) · Java(1yrs) Beginner SQL(1yrs)

**Software** AWS · JupyterNotebook · iOS · Bootstrap · Git · HIVE

## EXPERIENCE

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

Nov 2024 - Present

- Built 14+ machine learning, ai-engineering and full-stack projects in fast-paced software team environments
- Developed 5+ neural networks in Python, 11 apps in Typescript on AWS/Vercel with dev and production environments
- Implemented llm-chaining, hyperparameter tuning, fine tuning on 10+ LLM models controlling for latency & accuracy,
- Coached by Google Machine Learning, Google Kubernetes, Two Sigma, Tesla, Figma and Citadel Engineers

Market Research Intern - **EXTERN BEATS BY DRE**, Remote

Aug 2024 - Oct 2024

- Analyzed brand positioning and consumer sentiment for Beats by Dre and its competitors through surveys .
- Conducted 20+ in-depth interviews with Gen Z participants, uncovering trends and preferences in audio technology
- Analyzed interview data and survey results to create detailed reports, highlighting strategic opportunities

## AI PROJECTS

Customer Churn Prediction with Machine Learning | (~5 hours) - [Link to Project](#)

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, Streamlit, and Replit to analyze individual customers churn predictions

Brain Tumor Classification with Deep Learning | (~20 hours) - [Link to Project](#)

Nov 2024 - Present

- Developed a deep learning model to classify brain tumors using transfer learning and a custom CNN architecture.
- Achieved over 95% accuracy on the test set, demonstrating high model performance
- Utilized TensorFlow and Keras for model development, training, and evaluation
- Deployed the model using Streamlit, creating an interactive web application for users to classify brain tumor

GitHub AI Review Agent with OpenAI | (~20 hours) - [Link to Project](#)

Nov 2024 - Present

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