

Hassan Talha

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EDUCATION

Computer Science – Texas A&M University - (Expected Graduation: 2028; 4.0 GPA)

Relevant Activities: Aggie Coding Club, TAMU Tidal, Aggie Data Science Club, Product@TAMU, Aggie Artificial Intelligence Society

EXPERIENCE (PROFESSIONAL & TECHNICAL)

Software Engineering Resident - Headstarter AI (10/31/2024 - 3/1/25)

- 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
- Mentored and coached by engineers from Google ML, Kubernetes, Tesla, Figma, Citadel, and Two Sigma.

Software Engineering Fellow - Headstarter AI (07/29/2024 - 09/15/2024)

- Built and deployed 5+ AI projects using React, Next.js, Firebase, and Vercel, following agile methodologies and CI/CD for continuous development
- Collaborated with cross-functional teams in two company-wide hackathons, developing AI-powered web applications integrating Large Language Models (LLMs), while strengthening collaboration and creative problem-solving capabilities
- Engaged in weekly sessions with engineers from Google, Y Combinator, Stanford, Amazon, and venture-backed startups

Software Development Essentials - Code2College(06/2025 - 07/2025)

- 9-week web programming course including basic and advanced Python concepts
- Developed several technical projects in Python using intermediate concepts
- Attended professional development workshops to improve time management, professional skills, and technical portfolio development

Elite 101 - Code2College(08/2025 - 10/2025)

- Invited and selected to participate in technical internship preparation program
- Learned introductory programming concepts including: Git, Jira ticketing, team collaboration through Miro, Source Control, and basic software testing concepts
- Developed a technical project using Python, i.e., a Chat Bot that simulates a conversation with a user

Computer Science Projects (Available at [HassanTalha.com](https://hassantalha.com))

Heart Disease Prediction Model - (July 2024 - August 2024)

- Designed and implemented a machine learning model using TensorFlow and Keras to predict heart disease based on 13 clinical factors.
- Conducted data preprocessing, feature scaling, and hyperparameter tuning to optimize model accuracy, achieving over 90% prediction accuracy.
- Deployed the model on a user-friendly Streamlit app, showcasing the prediction process and providing an interactive interface for users to test with custom inputs.

Customer Retention Prediction Model - (October 2024)

- Built an end-to-end pipeline to predict bank customer churn using previous customer data such as credit scores and transaction history, sourced from Kaggle.
- Training and comparing five machine learning models, performing hyperparameter tuning, and integrating results into a web app for user comparison.
- Incorporated a large language model (LLM) to explain predictions and generate personalized customer emails based on churn likelihood.

SKILLS

Programming Languages: Python, Java, JavaScript, HTML, CSS, SQL

Machine Learning & AI: TensorFlow, PyTorch, Scikit-Learn, Keras, SMOTE

Data Science & Visualization: Matplotlib, Pandas, Numpy, Sympy

Computer Science Fundamentals: Data Structures & Algorithms, GUI's, Source Control (Git & GitHub)

ACTIVITIES

HPE Code Wars 2024 - Participant

- Competed in a Houston-wide hackathon organized by Hewlett-Packard for Houston Area students where my team used data processing Java code, to work through difficulty levels.

ADDITIONAL INFORMATION

Expertise and Certifications: Adobe ACA Photoshop (2025) , MS Products, AI/ML, CNNs, NLP, LLP

Languages: Urdu & Arabic