Hamiz Anjum

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EDUCATION

University of Illinois Urbana-Champaign May 2025
Bachelor of Science in Computer Science and Mathematics GPA: 3.77/4.0
Relevant Coursework:

- Algorithms & Models of Comp, System Programming, Artificial Intelligence, End-to-End Data Science, Probability and Statistics, Distributed Systems, Graph Theory, Numerical Analysis, Data Structures, Number Theory

TECHNICAL SKILLS

Languages: Python, C, C++, SQL, Java, R
Libraries: Pandas, scikit-learn, PyTorch, NumPy, Matplotlib, Shiny, FastAPI, SciPy, OpenCV, NLTK
Developer Tools: Git, Linux, Agile, VS Code, Jupyter Notebook, Docker, CLI, GDB, LLDB
Cloud Tools: GCP, BigQuery, Vertex AI, Looker, CI/CD Pipeline

EXPERIENCE

Data Science Intern Dublin, OH
The Wendy's Company May 2024 – Aug 2024

- Collaborated in an Agile environment to research and implement models for marketing and customer analysis
- Iteratively developed Python machine learning models to perform RFM segmentation clustering, behavior segmentation, and churn prediction, utilizing algorithms such as k-means clustering, SHAP, and Random Forest
- Leveraged Google Cloud Platform (GCP) for model creation and deployment, writing SQL queries in BigQuery, and deploying models into production on the Vertex AI platform
- Cooperated with a cross-functional team of data scientists and digital marketing analysts to develop a platform to holistically understand and influence 5 million + quarterly digital customers

Undergraduate Graph ML Research Assistant Champaign, IL
PeopleWeave – UIUC Caesar Research Group Feb. 2024 – May 2024

- Contributed to a project aimed at improving networking in academia through a platform that connects researchers
- Researched graph neural network (GNN) models to create a recommendation system for future co-authorship
- Implemented a hybrid Knowledge Graph Attention Network (KGAT) model, which uses higher-order attribute information to enhance recommendation accuracy, and recursively propagates node embeddings

Undergraduate NLP Researcher Champaign, IL
UIUC Illinois Mathematics Lab Aug. 2022 – Jan. 2023

- Utilized NLP methods with NLTK and spaCy to analyze 10+ million tweets on the Russia-Ukraine conflict
- Employed Twitter API to extract and categorize supply needs and demands using a "who-needs-what" structure
- Conducted temporal analysis of resource requests, identified supply-chain issues, and created a social reaction index, developing tools for gaining insights into crisis relief and studying disaster events

Undergraduate CS Course Assistant Champaign, IL
UIUC CS Department Aug. 2022 – May 2023

- Provided personalized support during office hours and facilitated discussion sections for 900+ students, covering C++ programming paradigms and computer science principles
- Assisted in debugging and troubleshooting programming projects, simplifying intricate C++ concepts

PROJECTS

Baseball Pitch Classification ML System April. 2024

- Implemented an MLB pitch classification system with 98% accuracy using scikit-learn and logistic regression
- Created an API using FastAPI, deploying model for real-time predictions on player pitch types

Heat Pump Efficacy Dashboard March 2024

- Developed an interactive data visualization dashboard in Python using Shiny to model heat pump efficacy in the largest 4000+ US cities, integrating historical weather data from the Open-Meteo API
- Designed a reactive interface with filters and rolling averages to inform consumers about heat solution viability

Neural Net Image Classifier Nov. 2023

- Built and trained a PyTorch neural network model, achieving 85% accuracy classifying CIFAR10 dataset
- Developed and tuned model using L2 Regularization, dropout, CNN layers, and Leaky ReLu activation function