Amaan Hussain

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Experience:

- Undergraduate Research — Fall 2021 – Present
  University of Illinois Chicago
  - Utilizing deep learning (neural networks) to train data from social media sites to predict sentiments and other factors such as likes on a post based on language using TensorFlow.

- Undergraduate Teaching Assistant — Spring 2021 – Present
  University of Illinois Chicago
  - Assisting Professor Evan McCarty with a languages and automata class that is foundational to Natural Language Processing

Awards / Certifications:

- 2nd in SAE Chicago Virtual Design Competition
- Machine Learning, Data Science Certification from Sundog Education (ML)
- Java Masterclass and Python Masterclass Certification, Learn Programming Academy (Python, Java)
- Natural Language Processing in Python from Head of Data Science at Pierian Data, Jose Portillo (NLP)

Extra-Curricular:

- SAE @ UIC, Chicago IL — Fall 2020 - Present
  Sponsorship & Marketing Lead
  Data Analysis SubTeam Lead: Formula Electric
  - Won 2nd Place in SAE Chicago Virtual Design Competition
  - Teaching new coming students data acquisition and analysis techniques by utilizing sensors that monitor the battery
  - Communicating with current sponsors as well as gaining prospective sponsors to fund our student organization

- LeadershipUIC member — Fall 2021 – Present
  - Working in a group to conduct research in exhibiting and implementing the positive elements in imparting education to UIC students
  - Will present to UIC Chancellor in May 2022

- Project Programmer — Fall 2019
  ASME @ UIC, Chicago IL
  - Programmed motors and other devices on Arduino in C++ for ASME Student Design Competition 2020
  - Competition canceled due to pandemic

Education:

- University of Illinois @ Chicago
  Fall 2019 – Present
  College of Engineering
  Bachelor of Science in Computer Science
  Minor in Management Information Systems
  GPA: 3.6/4.0 (Dean's List)

Skills:

- Proficiency in:
  C++/C, Java, SQL, Python, HTML, CSS
- Software Used:
  TensorFlow, Numpy, Sci-kit Learn, Pandas, Apache Spark, Arduino, GitHub
- Machine Learning and Data Science
- Natural Language Processing
- Microsoft Access, Word, and Excel
- Object-Oriented Programming

Highlight Projects:

- Covid-19 Data Analysis
  C++ Program that can read in files from John Hopkins Hospital with menu options that allow users to view pandemic data based on countries and check recovery, death and confirmed cases. Link

- Server and Client Application
  Java Application which relays information from client to server involving a gambling game called Baccarat. Involves GUI development. Link

- DIVVY Data Analysis
  C++ Program that reads files from DIVVY database with menu options and usage of hash maps with complex hash functions to store the bikes, stations, and trip logs. Link

- Healthcare Chatbot w/ Machine Learning Models
  Python program that utilizes 4 different machine models that are trained on text-based large corpus to help diagnose "unhealthy" vs "healthy" based on user input. Furthermore, it provides stylistic analysis and attributes based on a user's input using Stanford Core NLP Library Link