Vanshika Mehrotra

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EDUCATION

University of Florida **August 2022 - May 2024**

Master of Science in Computer and Information Sciences

Relevant Coursework: *Analysis of Algorithms, Mathematics for Intelligent System, Advanced Data Structures,Machine Learning, Natural language Processing*

- Graduate Teaching Assistant for COP 5536
- Graduate Research Assistant under Dr. Sarah Moeller
- Rewriting the Code - Member

Dr. A.P.J. Abdul Kalam Technical University, Lucknow, India **August 2018 - June 2022**

Bachelor of Technology in Computer Engineering *CGPA : 8.55/10*

TECHNICAL SKILLS

Languages/Skills: Python, SQL, Java(Kotlin), C++, C,C#,.Net HTML/CSS,JavaScript,Dart,Machine Learning,Android

Frameworks: Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn,Blazor, OpenCV, Django, Bootstrap, NodeJS, React, Flutter

Developer Tools: Jupyter Notebook, PyCharm, RStudio, Visual Studio,Excel, Google Colab,Git/GitHub

WORK EXPERIENCE

Careier **June 2023 - August 2023**

Software Development Intern *United States*

- Proficiently utilized .NET and Blazor technologies to develop webpages for robust data collection from GUDID API, managing daily (500+ records), weekly (2000+ records), and monthly (10,000+ records) datasets. Designed and implemented data classes to ensure efficient data processing and integration into SQL databases for streamlined storage and retrieval.
- Enabled and managed CRUD operations for company client data, overseeing a database of more than 200 client records.

Walmart Global Tech **January 2022 - July 2022**

Software Development Intern *Bangalore, India*

- Worked on the existing android application in Kotlin and optimized the app architecture for the immunization screen.
- Improved product quality through code reviews, writing effective unit tests, and helped in the implementation of automation testing for the SamsClub Pharmacy and Optical team esulting in a 94% increase in test coverage.

Indian Institute of Technology **June 2021 - July 2021**

Machine Learning Intern *India*

- Completed the assigned projects on classification and regression models demonstrating strong skills in data preprocessing, feature engineering, model selection, and performance evaluation..
- Developed recommendation algorithm for questions/tests based on performance and the importance of the topic and also created custom questions aligned with the algorithm's criteria.
- Designed and implemented a machine learning model for cancer identification, utilizing various Python libraries and frameworks with 96.5% accuracy.

PROJECT

NLP based News Recommendation(Graduate reserach)

- Created personalized news recommendation system leveraging deep learning models (LSTM and Transformers) to enhance user experience and engagement. Analyzed LSTM and Transformer models on Microsoft News Dataset, evaluating their ability to capture long-term dependencies and handle extensive data sequences.

Her Story

- Created a web app and API, utilizing React, Flask, and MongoDB for an educational tool. Employed Python web crawlers for data collection and integrated OpenAI. Collaboratively designed a user-friendly design and implemented the project, emphasizing the contributions of women classified on the basis of states.

BitCoin Mining

- Built a Bitcoin miner program in a Client-Server architecture utilizing Erlang's Actor Model; this distributed computing implementation could mine more than 500 coins in 14.5 seconds; this compact application could reach a peak performance of mining coins with up to nine leading zeroes. Technologies and Methods : Distributed Programming, HTTP, Erlang, Remote Procedure Calls (RPC)

Speech Recognition System

- Speech recognition with the ability to respond coherently with appropriate data used for google searches, maps, etc. all through the voice.

GAN and VAE for MNIST Data

- Implemented Generative adversarial network and Variational autoencoder on the MNIST dataset, compared their results, analyzed the generated images, and identified potential insights for future research.

Devconnector-MERN stack application

- Developed frontend components and implemented UI design for a social network application for developers, using the MERN stack. Collaborated with a team to build features including user authentication, profile management, forum posts, and comments.

TRAINING AND COURSES

• AI Programming in Python Udacity Nanodegree Program through AWS AI/ML Scholarship • Machine Learning summer Training • AI using IBM Watson (IBM)-Coursera • Machine Learning summer Training • AI using IBM Watson (IBM)-Coursera • Advanced Python Training (IIT Kanpur) • Machine Learning Foundations: (University of Washington) • 30 Days of Google Cloud program • Flutter Beginners Web Development Course (Udemy)• Blockchain Basics (The State University of New York) • Design and Analysis of Algorithm (NPTEL, IIT MADRAS) • Patent Law for Engineers and Scientists (IIT MADRAS)