ASEEM MISHRA

Arlington, Virginia

aseem.mishra@gwmail.gwu.edu ⋄ LinkedIn ⋄ Github

EDUCATION

Master of Computer Science, The George Washington University   Present

Relevant Coursework: Deep Learning, Computer Vision , Natural Language Understanding, Machine Learning, Artificial Intelligence, Design & Analysis of Algorithms.

Bachelor of Electronics and Communication, SRM University, Chennai   July 2015 - May 2019

SKILLS

Languages: Python, JavaScript, HTML, CSS, PHP, JAVA, C, C++, C#
Libraries: TensorFlow, PyTorch, Transformers, React, ExpressJS, NodeJS, ReduxJS, Bootstrap, NumPy, Pandas, Django
Databases: MySQL, MongoDB, Oracle SQL.

EXPERIENCE

Senior Systems Engineer   January 2020 - December 2022
Infosys Limited   *Pune, India*

- Developed and deployed frontend of a MERN application, ensuring responsive design and user-friendly interfaces.
- Collaborated with backend teams, utilized ReduxJS for state management and conducted rigorous testing for reliability, resulted in 100% successful production deployment.
- Designed target architecture for over 150 application migrations, resulted in streamlined and efficient migration processes.
- Prepared and installed solutions, defining precise system specifications and adhering to industry standards. This led to the smooth execution of 50 migration tasks for each application and minimized potential disruptions.
- Collaborated with clients in creating comprehensive migration plans, operation manuals, project budgets, and clear scopes of work, ensuring well-structured migration of 150 applications.
- Initiated and directed data collection and analysis for migrating 10 data centers across countries, resulting in a seamless transition and minimal data loss.
- Employed ETL processes and advanced Excel functions for data cleansing, transformation and visualization.

PROJECTS

Automated Descriptive Answer Grading System

- Led a team of four in developing an Automated Descriptive Answer Grading System, achieving 84% accuracy on test set.
- Engineered modifications to PyTorch's DataLoader for optimized data processing and adapted model evaluation functions to generate comprehensive metrics.
- Spearheaded the fine-tuning of the BeRT model, optimizing hyperparameters and conducting comparative analysis to improve model efficacy.

Grocery Price Comparison Web APP

- Spearheaded a 3 member team to design and build a Grocery price comparison web application using technologies such as ReactJS and Django.
- Enables users to compare grocery prices across 4 popular retailers, including Amazon, Target, Walmart, and Harris Teeter.
- Integrated OpenAI's API seamlessly into the application to generate recipes for dishes and perform real-time price comparisons for recipe ingredients across 4 grocery stores, providing users with a comprehensive and interactive shopping experience.

Hand Gesture Navigation System

- Led a team of three in developing a Hand Gesture Navigation System, transitioning from vanilla CNNs to YOLOv5 for improved real-time accuracy of 95%.
- Facilitated dataset creation using OpenCV and Ybat tool for 11 hand gestures and performed comprehensive training and fine-tuning of both CNN and YOLO models.
- Integrated PyAutoGUI into YOLO's detect.py for seamless navigation functionality.