DHRUV J SHAH

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Education

University of Massachusetts, Boston — **Boston, USA**
Masters of Science in Computer Science — *Aug 2022 - Present*

School of Engineering and Applied Sciences, Ahmedabad University — **Ahmedabad, India**
Bachelor of Information and Communication Technology — *Aug 2018 - May 2022*

Technical Skills

Languages: Python, Java, C, C#, HTML/CSS, JavaScript, SQL
ML Libraries: TensorFlow, NLTK, NLP, Keras, PyTorch, Sklearn, Scikitlearn, spaCY, openCV
Developer Tools: Jupyter Notebook, VS Code, Eclipse, IntelliJ IDEA
Technologies/Frameworks: .NET, ReactJS, NodeJS, Linux, GitHub, JUnit

Experience

TechArk — **June 2023 - July 2023**
Software Engineer Intern — *Norfolk, Virginia*
- Designed an AddOn that linked GMail and Trello according to the client's specifications.
- Deployed, Integrated third-party APIs, managed data flows, and optimized performance for the AddOn on Google Cloud Platform. Researched about existing AI based tools for Software Development.

Machine Psychology — **September 2022 – Present**
Research Fellow — *Boston, Massachusetts*
- Developed a robust Image Segmentation Pipeline for 3D CTA scans of Carotid Artery plaque in 70 ESUS patients.
- Employed custom 3D U-Net architecture and MONAI Library's Swin-UnetR for performance comparison.
- Processed CTA scan data stored on the Chimera cluster, gaining proficiency in cluster operations and utilization during the project.
- An abstract based on this work was accepted for a poster presentation at the Society of Cardiovascular Computed Tomography (SCCT).

Metis Intellisystem — **January 2022 - July 2022**
Data Science Engineer — *Ahmedabad, Gujarat*
- Formulated NLP algorithms for parsing statements from 45+ Indian banks, each with 3-5 distinct patterns.
- Utilized SpaCy for label extraction, supported by an automated Instagram usernames scrapper, and created a dataset of 200,000 names for labeling.
- Introduced a novel GST scorecard, considering compliance ratings and emphasizing data volume and import-export correlation.

Ahmedabad University — **May 2021 - June 2022**
Research Assistant — *Ahmedabad, Gujarat*
- Compiled a dataset of 500+ images featuring Indian coins of Rs.1, Rs.2, and Rs.5 denominations.
- Employed data augmentation and fed it into pre-trained CNNs including ResNet50, InceptionNet V3, VGG16, and MobileNetV2.
- Accepted for presentation at the 28th International Conference on Mechatronics and Machine Vision in Practice (M2VIP 2022) at Northeastern University, Boston.

Projects

Gamification Web Application for SAP | *.NET, C#, Razor View, CSS* — **September 2023 - December 2023**
- Led the development of a .NET application for SAP, covering case studies in Materials Management, Accounts Payable, Accounts Receivable, and Production.
- The live application used by clients at UMass Lowell, powered by MySQL, includes user-centric features like a dynamic dashboard and task-specific badges.
- Utilizing MVC, the SAP gamification web project streamlined coding, emphasizing an engaging and efficient user experience in C# ASP .NET.
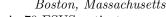
Extracurricular

Recreation Department — **Fall 2023 – Present**
Member Service Attendant — *UMass Boston*
- Use Fusion software to process registrations for guest passes, private and group personal training, and memberships
- Overseeing 5 student employees and over 100 students at the Recreation facilities