Yash Vivek Zambre

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Education

Masters: Electrical and Computer Engineering
Texas A & M University, College Station, TX *Aug 2022 - May 2024*
- Courses: Pattern Recognition, Image Processing and Computer vision, and Analysis of Algorithms.

Bachelor of Technology: Electronics and Telecommunication Engineering
Vishwakarma Institute of Technology, Pune, India - CGPA: 8.94/10 *July 2016 - Oct 2020*

Technical Skills

Languages: Java, Python, C/C++, SQL, JavaScript
Frameworks: Tensorflow, Keras
Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Libraries: pandas, NumPy, Matplotlib

Experience

Graduate Research Assistant June 2020 – Present
Texas A&M University *College Station, TX*
- Developing a model for automated data analysis system for phenotype data using computer vision techniques
- A full-stacked web application is developed using tools like Gradio to analyse the data
- A complete end-to-end machine learning development is in process to build and manage reproducible, testable, and evolvable ML-powered software.

Associate Software Developer Sep. 2020 – Apr. 2022
Finastra *India*
- Designed and developed the migration of the legacy (C++) product to the latest stack (Java and AWS cloud) to provide micro services to clients like Barclays and CITI bank and improved the accuracy of the product by 11%.
- Delivered an efficient MT2MX application that made our product compatible with the latest payment formats

Software Development Intern Jan 2020 – Aug 2020
Finastra *India*
- Gained knowledge of Global Pay Plus (GPP), a product of Finastra.
- Stood second in Finastra's Hackathon, developed an application "Donation Bank" as a part of CSR (Corporate Social Responsibility)

Projects

Content Based Image retrieval | *Python, Tensorflow, Web server, GUI* Oct. 2022 – Dec. 2022
- In content-based image retrieval (CBIR), relevant images are retrieved based on a given image.
- It was divided in 3 parts - "convolutional layer architecture (LeNet-5)" for feature extraction, "pooling layer" for sampling features and "fully connected layer" for doing prediction.
- GUI was designed for interface and hosted on a web server

Classification of Micrographs using VGG 16 CNN and Transfer learning approach | Oct. 2022 – Dec. 2022
- We demonstrated a transfer learning approach, where the VGG16 network with pre-trained weights is used to generate features to train the SVM.
- Classifier with least validation error estimate was the 5th convolutional layer.

PUBLICATIONS AND CERTIFICATES

- "Text Detection and Communicator using Braille for Assistance to Visually Impaired",2019 IEEE Pune Section International Conference.
- "Locomotion by Shortest Path and Obstacles Avoidance", 2019 IEEE Pune International Conference.
- Machine Learning course by Prof. Andrew Ng - Stanford University - Coursera