Pramod Varma Alluri

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Education

- **Arizona State University** Tempe, AZ
  Masters in Computer Engineering(Computer Systems); GPA: 3.89 *Jan 2022 - Dec 2023*
  Courses: Foundation of Algorithms, Probability and Random Processes, Statistical Machine Learning, Information and Assurance Security, Data Mining, Data Processing at Scale, Human Computer Interactions.
- **Sreenidhi Institute of Science and Technology** Hyderabad, India
  Bachelor of Electronics and Communication Engineering; GPA: 9.11/10.0 *Aug 2016 - May 2020*
  Courses: Signals and Systems, Data Structures and Algorithms, C Programming, Digital Signal Processing, Computer Networks, Java Programming, Control Systems

Skills Summary

- **Languages**: Python, C, C++, JAVA, MATLAB
- **Web Development**: HTML, CSS, javascript, PostgreSQL
- **Frameworks**: Pytorch, TensorFlow, Keras, Numpy, SciPy, Pandas
- **Tools**: OpenCV, MySQL, GIT, GIThub, Postman, Windows, LINUX/UNIX
- **Certifications**: Amazon AWS Certified Cloud Practitioner, Microsoft Azure Fundamentals

Experience

- **Accenture** Hyderabad, India
  Associate Software Engineer *Feb 2021 - July 2021*
  - **Microsoft Azure Owner Role**: Efficiently looked after the access management of cloud resources by following Azure Role Based Access Controls(Azure RBAC).
    o Designed and Developed a Web application using MVC, which is focused on fabricating the policy data and creating the policies as per the inputs provided by the user.
- **Induco Credit Information and Analysis Limited** Hyderabad, India
  Engineering Intern *Jan 2020 - July 2020*
  - **Warehouse Management System**: Had been a part of Designing, Development and Testing phases of a centralized Inventory Management Systems software.
  - **Psychometric Analysis Software**: Worked on building an online assessment platform dedicated to offer pre-employment psychometric assessment and training to the employees.

Academic Projects

- **Multiple Object Detection using CNNs. Tech: *Python, Pytorch, Tensorflow, Numpy, Scipy, Pandas***:
  o Created a model that could detect multiple objects in a particular frame using Recurrent Concolutional Neural Networks.
  o Used Faster RCNN Algorithm instead of regular RCNN which reduced the processing time for an image classification from 49 seconds to 0.2 seconds.
  o 3000 images per class were used to train the model. The model was supposed to classify 10 classes and it Achieved a train accuracy of 97 % and a test accuracy of 94.8%.
- **Sentiment Analysis on Amazon Reviews. Tech:*Python, Tensorflow, NLTk, Pandas, Tensorflow*** :
  o Extracted the reviews for IPhone 13 and checked the sentiments for the product by users, as positive, negative and neutral.
  o The classification model is created using Long Short Term Memory(LSTM) network and also Glove embedding is used on the input texts that improved the training accuracy by 32%.
  o Performed the Sentiment Analysis using several other algorithms like Naive Bayes, K-Nearest Neighbors and Support Vector Machines and evaluated their performances in different settings.
- **Gesture Controlled Robotic Arm. Tech: *ArduinoIDE, Servo Programming,BLYNK, IOT***:
  o Designed a Wired-Robotic arm that emulates the movements of a human Arm, on a accelerometer platform.
  o Created a mobile application using the MIT APPInventory 2.0, that can be used for operating the robot via Smart phone
  o Also used an open-source IOT platform named BLYNK that allowed the users to control the machine over the Internet.

Other Experience

- **Graduate Student Assistant (EEE 554 and EEE 556)** ASU, Tempe

  o I have been the grader for the course Probability and Random Processes under the professors Dr. Antonia Pappandreou Suppapola and Dr. Ying Cheng Lai from Fall 2022.
  o I am working as a grader for the course Detection and Estimation Theory, under the professor Dr. Antonia Pappandreou Suppapola from Spring 2023.