AISHWARYA PARUCHURI

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EDUCATION

San Jose State University, San Jose, CA
Master of Science in Software Engineering   *July 2021 - July 2023*
Relevant Coursework: Enterprise Software platforms, Software Systems Engineering, Software Engineering Processes, Deep Learning, Data mining, Machine learning

New Horizon college of Engineering, Bangalore, India   **GPA 3.7/4.0**
Bachelor of Engineering, Computer Science   *July 2014 - July 2018*
Relevant Coursework: Data Structures, Analysis and Design of Algorithms, Object-Oriented Programming, Operating system, Database management system, Web Programming

TECHNICAL SKILLS

Programming Languages:	Python,Java
Frameworks / Libraries:	Tensorflow, Keras, Scikit learn, Seaborn, Flask, Matplotlib
Tools:	Docker, GIT, GITHUB, Linux, Windows
Web Technologies & Databases:	HTML5, CSS, SQL, MongoDB
Data Science skills:	Data cleaning, Data analysis(Pandas, Numpy), Data mining, Data visualization, Predictive modeling, inferential/descriptive statistics, Supervised/Unsupervised Machine Learning Algorithms, Neural Networks

WORK EXPERIENCE

Data Scientist, Ghanawi Softwares, Bahrain   *July 2018 - July 2021*
Motor Failure Defect Classifier from Audio Segments: *Feb 2019 - July 2019*
- Guided a team of 6 data scientists to detect and classify noise patterns on Spectrogram images of audio segments.
- Implemented Convolution Auto Encode to produce an embedding representation of Spectrogram segments followed by distance-based pattern matching to correctly identify noise patterns.
- Managed large data imbalance of 1% data points in positive class and remaining in negative class. Achieved 99.9% recall and 85% precision.

IOU Scores Calculator for Data Annotation Tool :   *Jan 2020 - Apr 2020*
- Created a program to calculate IOU scores given an annotated image and it's ground truth along with support for rectangular box annotation and segmentation(Polygons) annotation.
- Managed multiple annotations across images and produced a rule-based score out of 100 to represent how good annotation is against ground truth. Integrated with an in-house Annotation tool. Worked on serving models on cloud via API by deploying docker-based micro services to serve models in flask.

Software developer intern, TetraPak, Bangalore, India   *Jan 2018 - July 2018*
- Utilized Flask, Django, React and MongoDB to implement new features.
- Implemented CI/CD pipeline into existing workflow to decrease development time by more than 20%.
- Assisted in Database Migration while keeping the production system up.

PERSONAL PROJECTS

- **Object Classification in Video Surveillance [Machine Learning]**   *July 2019 - Aug 2019*
  Utilized bags of SIFT features to obtain feature vectors for normalized object image and applied K-Means clustering to get vocabulary of visual words. Used Linear SVM and Random Forest as classifiers to identify cars, bikes, bicycles, and pedestrians
- **Cardiovascular Disease Prediction Using Machine Learning**   *Sep 2021 - Oct 2021*
  It is a Kaggle classification problem statement on predicting if a patient is having cardiovascular disease or not using models such as random forest, SVM and logistic regression along with data wrangling and cleaning. Achieved 76% accuracy when tested on a validation dataset.
- **Telecom Customer Churn Prediction Analysis**   *Nov 2021 - Dec 2021*
  Develop different multi-classification churn models to discover trends among the customers who churn and ascertain the factors that are prevalent when a customer decides to terminate his/her contract. Performed univariate analysis to see relation between features and predictors variable. Used performance metrics like precision, recall and f1 score to measure success of the model
- **Travel Planner App**   Dec 2017 - Jan 2018
  This project is about building out a travel app using React and Nodejs that obtains a desired trip location & date from the user, and displays weather and an image of the location using information obtained from external APIs.
  Designed Backend API using NodeJS and pulled data from Geoname database.

EXTRA CURRICULAR ACTIVITIES

- Trained and mentored underprivileged children in data science and machine learning as a part of the Data Science campaign held in 2019.
- Won the Innovative Minds: Logic Building and Creativity award organized at institute level in 2018.