Supriya Subramanian

supriya.subramanian04@gmail.com
Detroit, MI
GitHub- https://github.com/supsub01

Education:

Masters in Computer Science The University of Texas at Dallas, Richardson, TX (2019-2021)

- Machine Learning, Natural Language Processing
- Design and Analysis of Algorithms, Data Structures and Algorithms
- Big Data Management, Web Programming Languages, Human Computer Interaction

Jonsson School Graduate Study Scholarship Recipient GPA-**3.94**

Bachelor of Electrical and Electronics Engineering BITS Pilani, Hyderabad Campus (2015-2019)

Work Experience:

Aptiv, **Michigan**, Algorithm Developer (June 2021-*Current*)

Developing Autonomous Perception and Sensor Fusion Software to track 360° of host vehicle (C++)

● Root Causing and Implementing Solutions for critical issues found during vehicle testing.
● Designing and Implementing Regression Testing and Unit Testing to verify and improve Tracker Software.
● Individual Research project: Autonomous Perception using Machine Learning (Support Vector Machine Model)

Food Is Good, Software Engineering Intern (Dec 2020-Jan 2021)

● Implemented Front End interface and Data Extraction functionality for Chrome Extension to 100+ grocery websites (HTML, JavaScript, Web Scraping)
● Implemented Jest Test to verify the implemented functionality

Aptiv, **Michigan**, Algorithm Development Intern (June 2020-August 2020)

- Refactored C++ codebase for Autonomous Perception and Sensor Fusion Software (Improved Cyclomatic Complexity, Throughput, Readability)

Projects:

NLP Projects: Text Summariser, Information Extractor, Sentiment Analysis

- Implemented an Information Extraction Tool using Python Libraries (NLTK, SpaCy) to extract template arguments from a sentence
- Implemented an Extractive Text Summarisation Tool using Text Rank Algorithm
- Implemented Sentiment Analysis Tool using Naive Bayes Algorithm to classify Negative vs Positive tweets extracted from Twitter including keyword *Trump* to analyze sentiment during the 2020 Presidential Election.
  Additional implementations: Classify Spam Email, Movie Review Sentiments

Ingredient Checker Website

Created a website to check ingredients of an input product, against a list of input ingredients and reports whether the product contains these ingredients or not.
Fronted: HTML, CSS Backend: Python, Selenium Web Scraping

Implementing Machine Learning Algorithms and Visualising Data

Perceptron, Decision Trees ID3 Algorithm, Linear Regression (Python)

Technical Skills: Python, Java, C, SQL, HTML, CSS, JavaScript

---

Leadership Roles and Experience:

Coding Teacher *Huffman Elementary School* Volunteered to teach school students at coding club (2019-20)
Editor in Chief *On The Rocks* (Official College Magazine) (2018-19)