Aishwarya Nagaraj

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## EDUCATION

**Master of Science, Computer Science** May 2024
The University of Texas at Dallas, United States 3.33/ 4.0 GPA

**Bachelor of Engineering, Computer Science and Engineering** July 2022
Visvesvaraya Technological University, India 9.58 / 10.0 GPA

## TECHNICAL SKILLS

Languages : C, C++, Python, R, Java, PHP, HTML, CSS, JavaScript, JSON
Operating System : Linux, Windows
Tools/IDE : Jupyter Notebook, Codelabs, Git, Visual Studio
Worked On : NumPy, Pandas, Scikit-Learn, Pytorch, Matplotlib, SQL, Hadoop, Seaborn, MongoDB, MySQL, PostgreSQL, Tableau, ExpressJS, NodeJS, PySpark, Hadoop, Kafka, React, React Native, Restful API, Data cleaning and modeling, Feature Engineering, Docker, Postman, Agile Methodology, AWS, Hive

## PROFESSIONAL EXPERIENCE

**Software Engineer Intern, 7-Eleven** June 2023 - Present

- Reduced service timeouts by 25% through the design of AWS Lambda functions, while simultaneously enhancing Mobile Checkout responsiveness by 30% via reconfigured database designs.
- Enhanced customer experience and increased customer retention by implementing the 'Buy Again' feature, resulting in a 20% increase in repeat purchases.
- Significantly improved data security by implementing critical code enhancements, reducing data exposure risks within the API by 40% and safeguarding customer-sensitive information effectively.

**Data Scientist – Volunteer, Code for America** August 2023 – Present

- Analyze arrest data for the city of Los Angeles, and incorporate data from other sources, to determine whether there are actions local leaders can take to address the problem of crime.
- Conducted in-depth Exploratory Data Analysis using Python to extract meaningful insights.

**Software Engineer Intern, McKinsey & Company** February 2022 - July 2022

- Developed mobile application for lifestyle firm; utilized statistical methods to analyze improvement scenarios
- Designed Mobile Screens & react native components, increased test coverage by 20%, attributed by unit testing
- Estimated to enhance revenues by 15%, with more than 60% of new homeowners using application

## ACADEMIC PROJECTS

**Text Classification**

- Analyzed sentiment of reviewers across a variety of 6 different languages for Amazon Reviews
- Executed the NLTK and Roberta Transformers, concluding Roberta was wrong 3 times less often than NLTK

**Store item demand forecast prediction**

- Implemented Catboost for gradient boosting on decision tree
- Observed a significant decrease in error metric from 37.6% to 14.7% after applying Upgini

**Movie Search Engine**

- Built Movie Search Engine using plot summaries, utilized NLTK for stop word removal and named entity extraction
- Implemented Tf-Idf and cosine similarity algorithm using MapReduce to find Document Correlation

**Course Work**: Data Structures and Algorithms, Design and Analysis of Algorithm, Database Design, Computer Architecture, Machine Learning, Big Data, Information Security, Statistics for machine learning, Web Programming