PALASH ANJANIA

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EDUCATION

University at Buffalo - School of Engineering and Applied Sciences — Buffalo, NY , USA
Master of Science in Computer Science - **GPA: 3.78** — May 2023
Relevant Coursework: Algorithms, Databases, Machine Learning, Distributed Systems, Information Retrieval

University of Mumbai - Dwarkadas J. Sanghvi College of Engineering — Mumbai, India
Bachelor of Engineering in Computer Engineering - **CGPA: 8.30** — October 2020
Relevant Coursework: Object Oriented Programming (Python), Algorithms, Mathematics, AI, ML, Databases

SKILLS

Languages/ Libraries: Python, C, JAVA, R, HTML, CSS, NumPy, Pandas, OpenCV, Sklearn, XGBoost, NLTK, Matplotlib
Platforms: GCP, AWS, Docker, Jupyter, GitHub, MS Excel, Microsoft Office, Google Suite, Slack
Database/ BI Tools: SQL, MySQL, PostgreSQL, Tableau, Looker
Modeling Techniques: Decision tree, Random forest, NLP, Forecasting, Regression, Classification, Boosting
Web Development: Angular, HTML, CSS, Bootstrap, PHP, JQuery, AJAX, Node JS, DJANGO, React JS, JavaScript

PROJECTS AND PUBLICATIONS

Payroll management system [Java, SQL, GUI]
● Lead a team of three to develop a tool to manage payroll of a company with more than 10000 employees, saving 50% more time for other tasks.
● Accommodated features such as half days, overtime, late-in etc. to provide a complete payroll management performance.

Post surgery life-expectancy predictor [Machine Learning, Flask, HTML, CSS, JavaScript, Python]
● Adapted the One-year mortality rate which extends the use of the currently existent thirty-day mortality rate. This gave an accuracy of 87%
● Researched on various algorithms like Random forest, Extreme gradient boosting, Decision trees, Support Vector Machines etc. to find a good fit for the data. This research increased my knowledge of ML algorithms.

Indecision-app [React.js, HTML, CSS, JS]
● Devised a React JS application to help the user decide what they should do in times of dilemma to take any decision.
● This application gives the user about 30% more time to do more productive tasks.

Deep Learning powered Snakes [Python, Deep Learning, Reinforcement Learning]
● Built the famous snake game from scratch in python with player movement control utilizing arrow keys or hand gestures.
● Evaluated the game's performance after applying 5 different algorithms to train the machine to play the game on its own.
● The deep learning method involving actor-critic was the most efficient. It outperforms the reinforcement learning algorithm and the traditional non-AI algorithms by 25-40% .

Docker Application [Docker, Flask, PostgreSQL, Python, Multi-Threading, Socket Programming]
● Constructed an application with Docker to implement leader election without any deadlock or multiple leader issues using the RAFT algorithm. It also stored data over multiple databases for security and integrity of data.
● Implemented functionalities like leader election, log replication and secure data storage with multiple servers and multiple threads on a network with docker containers.

Weather application [Node.js, API, Flask, HTML, SCSS, JavaScript, Postman]
● Engineered a functional website to display the weather forecast using Node JS with APIs to get and post weather and geo-location data.The website allows the user to search the weather for a particular area.
● Handled the Postman app to complete the GET and POST requests from the APIs.

RESEARCH PROJECTS AND EXPERIENCE

Software Development Intern at Gormalone (December 2020 – April 2021)
● Collaborated in a team of 4 to model a ML predictor to predict the amount of milk produced by a specific cattle on the farm.
● Conducted logistic regression, random forest, decision tree models and gained an accuracy of 96% on random forest model.
● Built an application with technologies like Tensorflow, OpenCV to perform OCR from images of semen straws. It makes the process of form filling 35% faster.

Web Developer Intern at Androiders (August 2020 – October 2020)
● Designed fully functional websites utilizing React, Angular, HTML, Bootstrap, CSS and JavaScript. Duties included development and management of websites as per client needs.
● Collaborated in a team of 3 to conceptualize a job hunting website for the company in React and MongoDB as a database.
● Consumed REST APIs in React and Tested them employing Postman app for a number of websites that the company was developing at the time.

Freelancing app development(June 2022- August 2022)
● Delivered an android application for a food based product which lets the group of users decide on a restaurant to eat, it implements Flask and AI.
● Managed the AWS server throughout the duration of the app. Also made special privileges for admin privileges.

LEADERSHIP AND INVOLVEMENT

Co-founder of a start-up named Influx Innovation
● Formulated product strategies including functional requirements, cost requirements and also performed profit analysis.

Organized a community sports event
● Delegated tasks to a committee of 7 to organize a sports event involving 500 participants to make the event a success.