PALASH ANJANIA

(716) 9078769 | anjaniapalash@gmail.com | www.linkedin.com/in/palashanjania | https://palashanjania.netlify.app/ | https://github.com/palash-98

SKILLS

Languages/ Libraries: Python, C, C++, Java, R, NumPy, Pandas, ELK stack, 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

EXPERIENCE

Research Scientist   Mar 2023- Present
University at Buffalo
- Conducted research on scalable Bayesian Methods in Deep Learning and evaluated algorithms and theory for stochastic gradient Markov Chain Monte Carlo, deep generative models.
- Developed a responsive web application to keep track of research with frontend in React.js and backend in Express.js and Node.js with MongoDB as a database, incrementing research productivity by 20%.

Software Development Intern   Dec 2020 – Apr 2021
Gormalone
- Implemented various ML models, logistic regression, random forest, support vector machines, XG boost, to gain an accuracy of 96% on random forest model.
- Collaborated in a team of 4 to deploy various ML models to predict amount of milk produced by a cattles on farms.
- Analyzed large datasets with 100000 rows and conducted ETL operations to clean data and improve data quality.
- Designed an application with technologies corresponding to Tensorflow, OpenCV to perform OCR from images of semen straws. It makes form filling process 35% faster.

Web Developer Intern   Aug 2020 – Oct 2020
Androiders
- Optimized and remodeled functional websites utilizing React, Angular, HTML, Bootstrap, CSS and JavaScript. Duties included mediating with clients and programming web applications according to clients.
- Led a team of 3 to conceptualize and build a job hunting website with Angular and React for frontend, Node for backend and MongoDB as a database.
- Consumed REST APIs in React and tested those employing Postman app for 3+ client projects per day.

PROJECTS AND PUBLICATIONS

Information retrieval based ChatBot [React.js, Solr, Flask, GCP, Machine Learning, MongoDB, API]
- Programmed a chatbot with an interactive frontend and a backend with connection to MongoDB to store and retrieve data.
- Scraped data from popular website, Reddit, applying official Pushshift API for Reddit and Chitchat dataset. Data was indexed on Apache Solr. Later classified into 2 categories utilizing naive bayes classifier with an accuracy of 96%.
- Hosted and deployed chatbot web application to Google Cloud App Engine on Google Cloud Platform.

Post surgery life-expectancy predictor [Machine Learning, Flask, HTML, CSS, JavaScript, Python]
- Adapted One-year mortality rate extending use of current 30-day mortality rate, giving an accuracy of 87%.
- Researched on various algorithms viz. Random forest, Extreme gradient boosting, Decision trees, Support Vector Machines etc. to find a good fit for data.

Deep Learning powered Snakes [Python, Deep Learning, Reinforcement Learning]
- Built the popular snake game from ground up in Python, establishing player movement control via arrow keys.
- Assessed game's performance by applying five distinct algorithms, namely Hamiltonian, A*, BFS, Reinforcement Learning, and Actor-Critic, to train a machine to autonomously play the game.
- Achieved remarkable results with Deep Learning approach using Actor-Critic, surpassing performance of Reinforcement Learning algorithm and traditional non-AI algorithms by an impressive 25-40% .

Weather application [React.js, Node.js, API, Flask, HTML, SCSS, JavaScript, Postman]
- Engineered a functional website to display weather forecasts leveraging Node JS with APIs to get and post weather and geo-location data.The website allows users to search weather for a particular area.
- Optimized app by managing GET and POST requests via postman app, increasing its efficiency by 45%.

EDUCATION

University at Buffalo, The State University of New York   Buffalo, New York
Master of Science in Computer Science - **GPA: 3.78**   Aug 2021 - Feb 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**   Aug 2016 - Oct 2020
Relevant Coursework: Object Oriented Programming (Python), Algorithms, Mathematics, AI, ML, Databases.

LEADERSHIP AND INVOLVEMENT

Co-founded a company   Nov 2019 - May 2021
Influx Innovation
- Formulated product strategies to raise profit by 12%. Cultivated lucrative relationships with new and existing clients with effective communication and exemplary interpersonal skills.
- Oversaw day-to-day operations in the manufacturing department by fostering deep professional relationships with contractors.