RAJ SHAH

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EDUCATION

Masters in Computer Science, Stevens Institute of Technology, NJ   **Jan 2021- Dec 2022**
B.E Information Technology, University of Mumbai, Mumbai, India   **Aug 2016- June 2020**

SKILLS

Languages	: Python, JavaScript, R
Web Technologies	: HTML5, CSS3, WordPress
Database	: MySQL,MongoDB, PostgreSQL
ML Tools	: NumPy, Pandas, OpenCV, SpaCy, TensorFlow, Scikit-Learn, Pytorch, Keras, NLTK
Tools & Frameworks	: Django,Flask,Bootstrap, ReactJS(Beginner), AWS, Git, Gitlab
Data Vizualization	: Tableau, Power BI, Matplotlib

PROFESSIONAL   EXPERIENCE

Software Engineer,|Apkudo Inc |Dallas ,Texas   **Jan 2023- June 2023**

- Developed and maintained Python API endpoints for a web application, ensuring seamless integration between frontend and backend system. Implemented robust error handling and authentication mechanisms to ensure security and reliability
- Designed and optimized database schemas using PostgreSQL which improved query performance and scalability
- Collaborated with cross-functional teams to gather requirements and implement new features, leveraging Python and PostgreSQL to deliver high quality software solutions. Actively participated in code reviews, providing constant feedback and code improvements
- Conducted thorough testing and debugging of Python API endpoints utilizing tools like Insomnia to ensure code functionality and maintained code integrity. Monitored application performance using logging and profiling techniques

Software Engineer|XPF Solutions |Mumbai, India   **Jan 2018- Dec 2019**

- Developed and maintained front-end components using HTML, CSS, Javascript to create user friendly and aesthetically pleasing websites and web applications. Fixed bugs from existing websites and implemented enhancements that significantly improved web functionality
- Collaborated and coordinated with cross-functional teams to gather requirements for designing and developing layouts for client websites
- Worked closely with backend developers to integrate front end interfaces with RESTful APIs, enabling seamless data exchange
- Utilized version control system (Git) to manage and track code changes, enabling streamlined code management

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ACADEMIC PROJECTS

Quora Duplicate Question Detection[Github]

- Developed a model with around 400,000 data points to classify whether given question pairs are semantically equal
- Implemented traditional ML algorithms like XG Boost and Random Forest classifier, achieving an average accuracy of 75%
- Utilized modern NLP techniques like LSTM and word2vec, achieving an average accuracy of 83% and compared with previous approaches

Spotify Music Recommendation System[Github]

- Designed a Music Recommendation model using Machine Learning algorithms such as KNN, Random Forest, Decision Tree, etc.
- Analyzed 225,000+ training samples, performed data analysis and visualization, and compared algorithm accuracy using Histograms and pie charts. Achieved an average accuracy of 82%

Green Cart [Github]

- Spearheaded the development of an online plant sales platform using Node.js, MongoDB, Express.js, Handlebars, and jQuery in a collaborative team of three members
- Designed and implemented the dynamic database module, enhancing the platform's responsiveness and functionality
- Elevated user engagement by skillfully employing client-side scripting to manipulate the HTML DOM for actions like liking, commenting

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PERSONAL PROJECTS

Cricket 360 (PowerQuery, PowerBI) [Github]:
Developed an end to end Data Analytics Project utilizing web scrapping for comprehensive match details from ESPN Cricinfo. Applied Python and Pandas of efficient transformation of raw JSON into CSV for data accessibility. Orchestrated the integration of advanced technologies, including Brightdata, Python and PowerBI to drive strategic decision making for cricket team selection and optimize performance

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CERTIFICATIONS

- CISCO NETWORKING ACADEMY CERTIFICATE on Data Analytics Essentials
- VIRTUAL JOB SIMULATION CERTIFICATE from BCG (Boston Consulting Group) on Data Science
- FRONT END DEVELOPER CERTIFICATE of META from Courera- ONGOING

PUBLICATIONS

- "Developing a Parking Monitoring System Using Mask-RCNN" S-JPSET 20 May 2020 Vol.12 Issue 1(ISSN-2454-5767) [Link]