FNU KAJOL

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Education

University at Buffalo (SUNY), M.S. in Computer Science	**Aug 2022 – Dec 2023**

Relevant Courses: Analysis of Algorithm, Machine learning, Data Intensive Computing, NLP

Indian Institute of Information Technology, Lucknow, India, B.Tech in IT	**Aug 2015 – June 2019**

Technical Skills

Programming Languages & Databases: Python, C, C++, HTML, CSS, JavaScript, SQL, JSON, PostgreSQL, MongoDB

Utilities: Postman, Git, GitHub, Jenkins, Docker

Technologies/Frameworks: NodeJs, React, Express, Loopback, Streamlit, Microsoft Power BI, Matplotlib, Plotly-express, Natural Language Understanding (NLU), Natural Language Processing (NLP), Named Entity Recognition (NER), Sentiment Analysis, Topic Modeling, Text Classification, ChatBot, Dialogue Manager, Elasticsearch, Redis, TensorFlow, PyTorch, Sci-kit-learn, SciPy, Pandas, NumPy, Linux, AWS

Experience

Basis - Software Engineer   **July 2020 – July 2022**

- Accomplished goal of aligning tech strategy with company objectives, leading a 7-member team for efficient development and releases.
- Achieved successful implementation of the company's flagship revenue-generating product - Basis First, collaborating closely with the product team.
- Executed effective server-side integration of third-party tools, including Clevertap (analytics), WhatsApp (customer support), Payment Gateways, Vimeo (video playback), and Cloudinary (CDN).
- Enhanced backend capabilities using MongoDB and Redis for unstructured data; introduced Health Insurance Calculator, driving 81.44% revenue growth.
- Responded to user feedback with targeted enhancements such as spam detector; achieved a remarkable 98.61% engagement boost through gamification quiz.

Valuefy - Software Developer   **July 2019 – June 2020**

- Automated invoice generation for wealth advisors, resulting in enhanced operational efficiency.
- Demonstrated accomplishment by implementing Elastic search for robust reporting and data-driven decision-making.
- Achieved data accuracy by developing reconciliation processes for transactions and generic document uploads.
- Translated client requirements into actionable solutions through active engagement in user requirements meetings.
- Successfully managed end-to-end creation and maintenance of a dynamic REST API, encompassing crons, sequencing, financial calculations, and engine development.

Projects

Topic-Based Empathic Chatbot (Link)   **Feb 2023 – May 2023**

- Developed advanced chatbot system with natural, fluid conversations, leveraging NLU techniques and incorporating a re-ranking mechanism for human-like content retrieval.
- Integrated feedback analysis to adapt conversations based on user mood, ensuring personalized and seamless transitions.

Severity Analysis of US-Accidents (Link)   **Aug 2022 – Dec 2022**

- Analyzed US accident data using Data Cleaning, Exploratory Data Analysis, and five data models (Logistic Regression, K Nearest Neighbors, Decision Tree, Random Forest Classifier, Artificial Neural Network).
- Achieved 0.92 accuracy by selecting the Neural Network based on feature importance.
- Created the React app and used Microsoft Power BI to visualize and display the analysis on the data set.

Eye Gaze Tracking Using Webcam (Link)   **July 2018 - Dec 2018**

- Built a tool to detect autism at a pre-clinical stage so that proper intervention can be provided for the development of autistic children.
- Did a comparative analysis of three machine learning approaches of autism detection using eye tracking, which are, CNN, DNN, and non-neural network methods-SVM and Random Forest Classifier.

Hand Gesture Recognition Using Kinect Sensor (Link)   **Jan 2018 – May 2018**

- Developed an application for recognizing hand gestures for controlling the VLC media player.
- Concepts: Data extraction(using HoG feature), classification(Multiclass-SVM).

Extracurricular/ Awards

- World Rank 175, Google Code Jam to I/O for Women in 2020
- National Talent Search Examination Scholar 2010 (Was amongst Top 1000 Intelligent Students), India