RESUME

BARAPATRE SANKET

Ahmedabad (Gujarat)

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Python Developer with 2+ years of hands-on Experience | Specializing in Django, Flask, and Machine Learning | Passionate about NLP

In 2023, I successfully earned my Bachelor of Engineering degree in Computer Engineering from Amiraj College of Engineering and Technology, affiliated with Gujarat Technological University.

Technical Skills:

Backend - Python, Django(ORM), Flask, Pandas, Numpy, Scikit-learn, NLP(Natural Language Processing), Data Preprocessing, Tokenization, TF-IDF.

Frontend - HTML5, CSS3, Bootstrap4, jQuery, JavaScript, AJAX.

Databases - MySQL, SQLite, PostgreSQL., MongoDB

Cloud – Docker, AWS(S3 bucket, lambda).

Tools - Visual Studio Code, PyCharm, Jira, Bitbucket, GitHub.

Experience:

Python Developer – TMBS (TMedia Business Solution Pvt. Ltd.) | Jan 2024 – Present

- Developed and maintained Python-based backend systems for TMedia Business Solution's flagship products, ensuring high performance, scalability, and reliability.
- Implemented data processing and analysis algorithms using Python libraries such as Pandas and NumPy, optimizing data workflows and enhancing efficiency.

Application Software Engineer – Cimcon Digital | Feb 2023 – Dec 2023

- Designed, developed, and maintained applications for clients in accordance with their specific requirements and industry standards.
- Collaborated closely with clients to gather and analyze project requirements, ensuring alignment with business objectives and user needs.

- Worked in an Agile environment, contributing to sprint planning, daily stand-up meetings, and retrospective sessions to continuously improve development processes and deliver value to clients.

Software Engineer(SE) - Shelter Soft | Jan 2023 – Jan 2023

- Assisted senior developers in various stages of the software development lifecycle, including requirements gathering, design, coding, testing, and deployment.
- Actively participated in code reviews and received constructive feedback to improve coding practices and enhance code quality.
- Implemented features and functionalities based on provided specifications and design documents, contributing to the overall development effort.

Projects Done:

1. **OEE Calculation Software with MQTT Protocol**

- Developed a software application that utilized the MQTT (Message Queuing Telemetry Transport) protocol to collect and analyze data from manufacturing equipment in real-time. The application calculated Overall Equipment Effectiveness (OEE) by processing data on machine availability, performance, and quality. It provided comprehensive insights into production efficiency, enabling proactive maintenance and optimization strategies to minimize downtime and enhance productivity.

3**. Video Analytical Software for Colgate.**

- Developed specifically for Colgate's manufacturing facilities, the Video Analytical Software is a pioneering solution designed to swiftly detect errors in robot machines. Through integration with advanced camera technology and proprietary protocols, the software seamlessly communicates with factory equipment, promptly capturing and analyzing video footage of detected errors. This innovative approach not only minimizes production downtime but also facilitates thorough analysis for preventive measures, ultimately enhancing efficiency, quality control, and cost-effectiveness within Colgate's manufacturing processes.

4**. Step-to-Nulink for FreeCAD Software.**

- The Step to NuLink project is a groundbreaking application developed using Python and FreeCAD software, aimed at detecting metal sheets in CNC machines. By harnessing the power of computer vision and machine learning algorithms, the system accurately identifies metal sheets within the CNC machine workspace. Furthermore, Docker technology is utilized to create a portable and scalable environment, allowing for the seamless deployment of the application. The Docker image is then hosted on Amazon

Web Services (AWS) for production use, ensuring reliability and scalability in real-world scenarios.

5. **Trading Application(Gui-based)**

- I've developed a user-friendly trading application using Python's Tkinter library, featuring a graphical user interface (GUI) for seamless navigation. This application automates the buy and sell order functionalities based on predefined target prices, providing users with enhanced convenience and efficiency in executing trades. Additionally, live tables for Nifty and BankNifty are integrated into the software, enabling users to set and monitor their target prices effortlessly. With its intuitive interface and automated trading capabilities, this application simplifies the trading process and empowers users to make informed decisions in real-time.

6. **Movie Recommendations System:**

- I spearheaded the development of a cutting-edge movie recommendations system, employing advanced machine learning techniques to personalize user suggestions. Utilizing Python, alongside libraries such as scikit-learn and TensorFlow, I engineered a collaborative filtering algorithm to analyze user behavior and preferences. This involved data preprocessing techniques, including handling missing values and scaling features. Additionally, I implemented natural language processing (NLP) methods to extract meaningful insights from movie descriptions and user reviews.

7. **SMS Spam Identifier:**

- As the developer, I conceptualized and implemented an effective SMS spam identifier using machine learning algorithms. Leveraging Python and its libraries, such as scikit-learn and pandas, I constructed a robust classification model capable of distinguishing between legitimate messages and spam with high accuracy. Feature engineering played a crucial role, as I extracted relevant characteristics from the text data, including word frequency and presence of specific keywords. Furthermore, I employed techniques like tokenization and TF-IDF (Term Frequency-Inverse Document Frequency) to preprocess the text data for model training.