Saswat Kumar Pradhan

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PYTHON DEVELOPER

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Profile

Skilled software developer with expertise in Django, FastAPI, and React.js. Proficient in Machine Learning, system design, and OpenAI, Gemini Gen AI. Experienced with Docker, Kafka, and various databases. Strong background in Python and frontend development, with a focus on creating responsive, secure applications.

Experience

APCOSYS | Python Full stack Developer   **Dec, 2023 – Oct, 2024**

- Developed user-friendly front-end interfaces and secure backends for Django projects.
- Integrated APIs seamlessly to enhance functionality and data exchange within applications.
- Managed project versions efficiently with Git, fostering smooth collaboration within the team, coordinating tasks, and incorporating feedback for project success.
- Hosted and maintained scalable, reliable, and secure applications on AWS cloud infrastructure.

FOLKSMEDIA | Python Backend Intern   **Jul, 2023 – Sep, 2023**

- Acquired proficiency in utilizing FASTAPI and applied this knowledge in a real-time live project.
- gaining practical experience in developing high-performance web APIs.
- Developed and maintained backend features for web applications using Python and FASTAPI framework, contributing to the enhancement of overall system functionality.
- Collaborated with senior developers to troubleshoot and debug issues, gaining hands-on experience in problem-solving within a professional development environment.

Skills & abilities

- Proficient in **Django** and **FastAPI**, including hands-on experience with **Swagger UI** and ReDoc for API documentation.
- Skilled in **REST framework** with expertise in CRUD operations for APIs.
- Knowledgeable in **Machine Learning** (ML) and its application in real-world projects.
- **Knowledgeable in LLM and OpenAI, Gemini Gen AI implementation using Semantic Kernel.**
- Experienced in using **LangChain** for building applications that integrate with large language models.
- Proficient in **React.js** and **Redux** for front-end development.
- Experienced in **system design** with a strong understanding of architecture and scalability principles.
- Knowledgeable in Java and its frameworks including JSP, Servlets, Hibernate and **Spring Boot**.
- Hands-on experience with databases such as **MySQL**, SQL Server, **PostgreSQL**, and **MongoDB**.
- Experienced with Sentry, SMTP, and **Celery** for monitoring, email handling, and background task management.
- Familiar with **Docker** for containerization and deployment.
- Practical experience with **Kafka** and its implementation in real-time projects.
- Strong understanding of **JWT authentication** and its application in secure API development.
- Experienced with **Linux OS** and proficient in using its command-line interface.
- Adept at creating unique, responsive, and eye-catching designs using **HTML**, **CSS**, **JavaScript**, Bootstrap and **Material UI (MUI)**.

Projects

Personal Gen AI Application

- Created a personalized **Generative AI** application utilizing Google's Gemini **LLM**.
- The project involved building a sophisticated content generation tool that adapts to user inputs, offering highly customized and context-aware responses. Implemented using **Django**, the application is designed for efficiency, scalability, and secure API integration, providing real-time, dynamic user interactions.
- **Integrated a Retrieval-Augmented Generation (RAG) pipeline** to enhance the application's accuracy and relevance by retrieving relevant information from external data sources.

Air Quality Prediction (ML)

- Prediction of Relative humidity based on past data by using **machine learning**. This prediction will help us to know about the present and upcoming situations and precautions accordingly.
- Utilized supervised learning techniques and **data preprocessing** to train the model on past environmental data, enabling accurate forecasts of relative humidity levels.

Blogpost (.BLOG)

- Blogpost simplifies user registration with a swift and secure one-time password (OTP) system, ensuring only legitimate users gain access within a two-minute window.
- Once registered, users enter a vibrant blogging community where they can explore and create posts effortlessly, with content control vested solely in the hands of the post creator.

  Combining simplicity with security, Blogpost offers users a seamless blogging experience while prioritizing privacy, redefining the blogging landscape one secure registration at a time.

Leapss (Leave Application System)

- Contributed to the development of a comprehensive Human Resource Management System (HRMS) by designing and implementing the **Attendance Module**.
- This module includes essential features such as **leave ledger**, **leave management**, and a **personalized smart advanced calendar**, streamlining attendance tracking and scheduling processes. Collaborated effectively within a team environment to ensure seamless integration and optimal functionality across the entire system.

Education

BCET, Balasore, Odisha | Graduation 2022

Stream: Computer Science & Engineering

University: BPUT, Rourkela, Odisha

SGPA: 8.33

SVM Keshabdham, Cuttack | Intermediate 2017

Board: CHSE, Odisha

Percentage: 66

K.S. High School, Balimunda | Schooling 2015

Board: HSCE, Odisha

Percentage: 75

Hobbies

- Playing chess.
- Reading & Listening Stories.
- Designing webpages.