VINOD SARWADE

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PROFESSIONAL SUMMARY

Result driven software developer with 2.8 years of experience in python. With hands-on experience in designing and developing scalable, secure backend systems, APIs and ETL pipelines and analyzing data using Pandas, NumPy and visualization tool. Proficient Python, Django and Flask. Skilled in leveraging Docker for containerization and deploying applications seamlessly. Strong understanding of data wrangling, RESTful services and SQL. Experienced in data manipulation, analysis, and visualization to deliver actionable insights. Adept in debugging and working with cross-functional teams. AI/ML enthusiast with a keen interest in leveraging data-driven approaches to solve problems.

TECHNICAL SKILLS

- **Languages**: Python, C++
- **Frameworks**: Django, Flask, Django REST Framework, Mysql, ORM.
- **Libraries:** NumPy, Pandas, Matplotlib, SK learn
- **Data & ETL:** Data wrangling, CSV/JSON ingestion, basic data pipeline automation.
- **APIs:** RESTful API development, Postman, Swagger, Authentication and Authorization, JWT
- **Tools:** Git, Docker, VSCode, Jupyter, Copilot, MS-Azure.
- **DevOps:** Docker, basic Linux CLI and Networking
- **Soft Skill:** Leadership Quality, Good team player, Presentation skills, Creative, self-Confident, Enthusiastic, Quick learner
- **Other:** Data visualization, system design, basic frontend understanding (HTML, CSS, JS)

WORK EXPERIENCE

Capgemini   **Sept – 2022 – Present**

Senior Software Engineer

- Developed robust backend services using Python Django and Flask, ensuring seamless functionality and scalability.
- Implemented data validation, cleaning and transformation from CSV sources using pandas, NumPy.
- Containerized services using Docker for efficient deployment and scalability in production environments.
- Collaborate with frontend and data teams to deliver production grade feature
- Designed and implemented REST APIs for seamless integration between frontend and backend systems, improving application efficiency.
- Implemented an end-to-end AI/ML model, including deployment using Flask and Docker for containerization.
- Worked with Robotics, hardware devices like Arduino and Raspberry Pi, integrating them with Python for custom IOT based solutions.

PROJECTS

Stock Market tracker web app (Python, Django, DRF, Bootstrap, HTML/CSS, Requests, alerts)

- Developed a web application that allows user to track stock market data by fetching it from public API
- User can add or delete stocks dynamically via the UI which updates dashboards using Django templates.
- styled frontend using bootstrap, gave alerts using messages, provide authentication.

Robot Control System (Python, Flask, Docker)

- Created a RESTful API and UI for controlling robot.
- Used Python and Flask to manage device operations and real-time status updates.
- Dockerized the entire application and deploy it on server.

Object Detection (Python, Flask, YOLOv11, Docker)

- ML model for object detection which determines whether a Tarpaulin is covered or uncovered using Yolov11 model…
- Exposed an HTTP endpoint for image input and returned a prediction.
- Dockerized the entire application for consistent deployment process and deploy it on local server.

Sales Analysis (Python, Pandas, NumPy, Matplotlib)

- Applied data transformation handled NaN values and make an Exploratory data analysis on Zomato's sales data.
- Visualize the data using matplotlib to make a prediction and get result summery.

ACOMPLISHMENT

Received the WOW Award for exemplary performance in the 5G project, showcasing expertise in backend development, hardware engineering, and frontend solutions.

EDUCATION

Bachelor of Engineering   **Passing- 2022**

Savitribai Phule Pune University   CGPA – 9.4