Vijay Takbhate

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EXPERIENCE

Fox Solutions Pvt. Ltd.
Automation Engineer   Jun 2024 – Oct 2024
                                                              Location: Maharashtra

- Completed 2 months of internship plus 4 months of full time work.
- Worked with PLC and SCADA systems, focusing on automating processes and optimizing operational efficiency.
- Collaborated with cross-functional teams to implement automation solutions for industrial applications.

Cei Design Consultancy Pvt. Ltd.
Python Developer Intern   Aug 2024 – Sept 2024
                                                              Remote, Maharashtra

- Worked as a Python development intern. Invitation
- As a Python developer, specialized in data processing by utilizing Python and Excel for data tasks and OpenCV for image processing.

Ujucode
Subject Matter Expert Intern   Aug 2023 – Oct 2023
                                                              Remote, Maharashtra

- Contributed as a Python developer for a ChatBot project. Certificate
- Handled backend development tasks while concurrently researching Python modules. Research Paper

PROJECTS

Twitter Post Sentiment Prediction   NLP Project (Completed)

- Engineered an ETL pipeline with **PySpark** and **SQL**, archiving intermediate results in **CSV**.
- Conducted sentiment analysis using **NLP (TF-IDF)** and optimized hyperparameters.
- Monitored model performance through **MLFlow** on **Databricks**.
- Leveraged **Google Cloud Storage** and **MySQL** to manage feedback and performance metrics.
- Assembled the model and launched it via a **Docker** image and website on **Render**.

Text-Text Chat-Bot   LLM Project

- Designed an advanced Text-Text Chat-Bot using the **NVIDIA API**, employing **prompt engineering** to create diverse functionalities such as paraphrasing, grammar correction, AI detection, plagiarism checking, content summarization, precise answer generation, and interactive chatbot features.
- **Target Audience:** Content creators, researchers, businesses, and professionals requiring automated text solutions.
- Delivered significant productivity gains by streamlining text enhancement tasks and providing an intuitive user interface.
- **Technologies Used:** HTML, CSS, Python Flask, Cloud Database, and Render for deployment. website

Hand Gesture Recognition Using MediaPipe and Custom CNN Model   Deep Learning

- Leveraged Google's MediaPipe framework to detect hand landmarks and gestures.
- Collected and labeled custom dataset of hand gestures for training purposes.
- Developed a Streamlit application to enhance accessibility and flexibility for end-users.

TECHNICAL SKILLS

Languages: MySQL, Python, HTML, CSS

Technologies: Streamlit, Flask, VS Code, GitHub, mlflow, Docker, PySpark, Databricks, Database, Google Cloud Platform

CERTIFICATION

MLOps Bootcamp: Mastering AI Operations for Success - AIOps   Jun 2024
Udemy Course   *Remote, Maharashtra*
   * Acquired comprehensive knowledge of the Machine Learning Operations (MLOps) lifecycle.
   * Enhanced expertise in modular programming within a development environment. Project Link
   * **Skills Acquired:** Version Control using Git, Python, Flask, MLflow

EDUCATION

SVERI's College Of Engineering   Graduated May 2024
Bachelor of Technology in Electronics and Telecommunication   *Pandharpur, Maharashtra*
   * **Relevant Coursework:** Developed a professional and industry-ready persona through focused training, securing a commendable score of 81.71 marks.

SVERI's College Of Engineering   Graduated May 2021
Diploma in Electronics and Telecommunication   *Pandharpur, Maharashtra*
   * **Relevant Coursework:** Acquired hands-on experience with hardware technologies and delved into C programming, consistently achieving a score of 91.73.

BLOGGING

Comprehensive Docker Guide   Containerizing Flask Applications
   * Explained Docker's core components, including Dockerfile, images, and containers, with a focus on deploying a Flask application.
   * Provided a hands-on tutorial for building, running, and scaling applications using Docker in a development environment.

What is Statistical Inference?   LinkedIn Article
   * Explored two key concepts in statistical inference: parametric inference and hypothesis testing. Using a real-life example from the COVID-19 pandemic, discovered how these techniques enable data analysis and informed conclusions.

LANGUAGES

English   **Marathi**   **Hindi**

SOFT SKILLS

Critical Thinking   Intellectual Rigor   Problem Solving   Understanding Business Needs