KHILAN MANGUKIYA

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SUMMARY

With extensive experience in Machine Learning and Python, I have successfully completed an internship focused on machine learning model development, deployment, and optimization. I possess strong expertise in data preprocessing, feature engineering, and leveraging frameworks like Scikit-learn, TensorFlow, and PyTorch to build robust models. My diverse project portfolio showcases proficiency in both supervised and unsupervised learning, data analysis, and algorithm refinement. Driven by a passion for utilizing machine learning to deliver data-driven solutions, I am committed to continuous learning and the enhancement of my technical skills.

EXPERIENCE

Technohacks Edutech

📅 2024 - Present   📍 Vadodara, Gujarat, India

Company, specializing in AI and ML solutions for manufacturing and production.

- **Developed and deployed machine learning models** for real-world use cases, focusing on predictive analytics and classification tasks.
- **Performed data preprocessing** including cleaning, transforming, and feature engineering on large datasets to improve model performance and accuracy. **Implemented machine learning algorithms** such as regression.
- decision trees, and neural networks using frameworks like Scikit-learn, TensorFlow, and PyTorch.Collaborated with a team to **optimize model performance**, conducting hyperparameter tuning and model validation through cross-validation techniques. **Monitored and maintained** deployed models, ensuring scalability and
- efficiency in a production environment.Contributed to **automating the machine learning pipeline**, integrating models into APIs for easy access and use by other teams.

LANGUAGE

Python, JAVA, C

FRAMEWORKS

Pandas, Numpy, Scikit-Learn, Matplotlib, Tensorflow

TOOLS

Excel, PowerPoint, MySQL

PLATFORMS

Jupyter Notebook, Visual Studio Code, Colab

SOFT SKILLS

Excellent Communication, Report Building

ACHIEVEMENTS

Machine Learning *Certificate*   July 2024

- Mastered fundamental Python with libraries like scikit-learn, TensorFlow, or PyTorch.
- Acquired experties in procedual programming and associated logical concepts, enhancing capabilities

Pyhton Programming *Certificate*   Aug 2023

- Learn essential Python concepts such as variables, loops, functions, and data structures.
- Mastered in Python interpreter, integrated development environments (IDEs) like PyCharm or Jupyter Notebook.

Pyhton for Data Structure *Certificate*   Oct 2023

- Developed comprehensive understanding of lists, tuples, dictionaries, and sets.
- Introduced to time complexity and space complexity.

PROJECTS

automatic question paper generator

📅 2023 - 2024   Parul University, Vadodara, 📍 Gujarat, India

This side project is a user-friendly tool designed to provide recommendations for creating customizable content generation system.

- Utilized **natural language processing (NLP)** techniques to categorize and generate questions from a question bank.
- Implemented algorithms to ensure **randomization** and **non-repetition** of questions, improving efficiency and variety in question paper creation.
- Enabled user-defined parameters for **level**, **question type** (MCQs, short answer, descriptive), and **subject** selection.
- Automated the generation process to produce question papers in **PDF format**, significantly reducing manual effort for educators.

EDUCATION

Bachelor of Science in Information Technology

Parul University

📅 2022 - 2025   📍 Vadodara, Gujarat, India