Sangram Lembe

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EDUCATION

G.H.Raisoni College of Engineering and Management, Pune **2020 – 2024**
B.Tech - Artificial Intelligence - ***CGPA - 8.31*** *Pune, Maharashtra*

COURSEWORK

- Machine Learning
- Computer vision
- NLP Concepts
- Deep Learning

EXPERIENCE

Intern at Flourisense **July 2023 - January 2024**
Role - Python Developer *Pune, Maharashtra*

- Developed and maintained an Application Tracking System using Node.js and Sequelize.
- Implemented RESTful APIs to manage candidate data, leveraging the flexibility and scalability of Node.js.
- Utilized Sequelize ORM for efficient database operations and data modeling.
- Integrated and tested API endpoints using Postman for seamless communication between front-end and back-end systems

PROJECTS

Features Preserving Blurred Image Classification Using LLM | **Jan-Jun 2024**

- The digital era has seen an explosion of visual data, with images and videos being generated rapidly.
- Fine-tuning pre-trained models convolutional neural networks (CNNs) on a dataset of blurred images can improve their performance.
- Achieved overall accuracy in the range of 70 per, demonstrating the model's effectiveness in handling various degrees of image blur

Forecasting the Psychological Well-being of Students Using ML | **2023 - 2024**

- Developed a machine learning model using PCA, PSO, and stacked ensemble techniques to forecast mental health challenges among 1,000 college students.
- Enabled early identification of at-risk students, allowing for timely and targeted mental health interventions to significantly improve well-being, academic performance and emotional resilience among students.
- Contributed to creating a proactive, student-centric ecosystem focused on mental health, emotional support through data-driven, advanced predictive analytics and targeted early intervention strategies.

Dimensionality Reduction with PCA and t-SNE. | **Jan 2023**

- Enhanced Model Performance: Achieved up to 50per improvement in computational efficiency and accuracy by applying PCA and t-SNE to a large dataset for dimensionality reduction.
- Simplified complex high-dimensional data into 2D and 3D visualizations, leading to clearer insights and better interpretability of results from large datasets.
- Reduced data processing time and noise by applying dimensionality reduction techniques to large datasets, facilitating faster model training and more efficient analysis.

TECHNICAL SKILLS

Languages: Python, C++, SQL, HTML, CSS
Technologies/Libraries: Jupyter Notebook, Scikit-learn, TensorFlow, Matplotlib, Plotly,
Tools: Anaconda, VS Code, PyCharm, Git, Canva

PUBLICATIONS

Features Preserving Blurred Image Classification Using Large Language Model. **2024**
In IJIRSET, pp. 8474-8480. Publisher. 5 MAY 2024, Pune. DOI: X10.15680/IJIRSET.2024.1305313

CERTIFICATIONS

- The Joy of Computing using Python - NPTEL
- Diploma in Python - SPARK It Training Institute