

Piyush Sahani

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• Mumbai, Maharashtra

WORK EXPERIENCE

Python Instructor and Developer

Jun 2024 - Jul 2024

Static Int. Educare

- Instructed Python and Data Science to approximately 40 students over a one-month period.
- Developed and delivered curriculum focusing on Python programming fundamentals and data analysis. Facilitated hands-on learning activities and provided guidance on real-world Python applications.
- Key Achievement:** Received positive feedback from 90% of students for effective teaching methods and curriculum.

Machine Learning Intern

Dec 2023 - Jan 2024

Techqkonnnect

- Analyzed datasets to identify patterns and trends. Designed and implemented machine learning models for various projects.
- Built an web applications using Flask and Streamlit.
- Projects included image processing, sentiment analysis, image recognition models, and data visualization.
- Key Achievement:** Successfully increased the accuracy of image recognition models by 15%

EDUCATION

Bachelor of Computer Science - Specialization in Data Science

Vidyavardhini's College of Engineering and Technology, Vasai

2021 - 2025

GPA: CGPA 8.6

Higher Secondary Education

Patuck Junior College, Mumbai

2019 - 2021

GPA: 84.66%

PROJECTS

Facial Emotion Recognition

- Created a model based on the FER-2013 dataset, leveraging the MobileNetV2 model and transfer learning techniques, achieving a success rate of 86.37%.

EEG Signal Analysis for Mental Disorder and Emotion Recognition

- Engineered advanced techniques to analyze EEG signals from .edf files; increased diagnosis accuracy by 20% and reduced error rates by 15%
- Two separate models are trained using the SVC algorithm: one to predict emotions as positive, negative, or neutral, and another to determine if a patient has a mental disorder, specifically schizophrenia.
- This project is to assist psychologist and this can plot the EEG signals using MNE library in python.

WhatsApp Chat Analysis

- This Project mainly focuses on four aspects chat analysis, sentiment analysis, spam detection and translation.
- Googletrans is utilized for translating chats, while various visualization tools are employed to plot chat analysis and sentiment.
- NLP is applied for Spam detection using Support Vector.

SKILLS

Technical Skills:

- Programming and Frameworks: Python, SQL, Flask, Streamlit
- Machine Learning: TensorFlow, Neural Networks, Deep Learning, scikit-learn, OpenCv
- Data Visualization: Matplotlib, Seaborn, Statistics
- Data Visualization Tools: PowerBI

Soft Skills:

- Teamwork, Communication, Problem-Solving

AWARDS

- Winner, 1st Prize in VNPS 2024 (Machine Learning domain)
- Winner, Secured 2nd place at ML-Fiesta 2024 All India Hackathon, IIIT Bangalore on Unstop
- Published Research Paper: "Facial Emotion Recognition from Video using Transfer Learning" on IEEE Xplore
- 1st Position, Inter-Level Chess Competition, Vidyavardhini's College of Engineering and Technology

CERTIFICATIONS

- Neural Networks and Deep Learning by DeepLearning.AI
- Introduction to Natural Language Processing by Coursera
- AI Virtual Experience Program by Cognizant
- Power BI Beginner to Pro Workshop