Nikhil Pujari

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Internship

Brillioz Infotech Pvt Ltd Junior Engineer (Data Scientist) Responsibilities: **Pune** Mar 2024 – Aug 2024

- **Project: Equipment Health Monitoring:** Performed exploratory data analysis to identify patterns, trends, and outliers using python and matlab, leading to strategic decision-making.
- Extended predictive models to analyze data across an entire fleet of engines, providing insights into usage patterns.
- Demonstrated expertise in data pre-processing techniques such as imputation, normalization, and handling missing values, ensuring high-quality data for analysis. Proficiently resolved errors in scripts, including Matlab, Python, processing, and tagging errors.
- **Project: Industrial Safety Equipment:** Led and contributed to proof-of-concept (POC) projects in the field of computer vision, leveraging cutting-edge technologies to develop innovative solutions for Industrial Safety Equipment using libraries and frameworks such as OpenCV and TensorFlow.
- Engineered innovative solutions aimed at fortifying safety measures for Industrial Machines through adept utilization of image processing techniques.

Knowledge Purview	Data Science, Machine Learning, Deep Learning, Artificial Intelligence, Pattern Recognition, Statistical Analysis, Data Preparation, Data Analytics, Data optimization, Image Processing, Signal Processing, Computer Vision, MS-SQL, Agile Methodologies
Programming languages	Matlab, Python, LabVIEW
Toolboxes/Libraries	 MATLAB – Statistics and Machine Learning toolbox, Signal Processing toolbox, Optimization toolbox Python - Pandas, Matplotlib, Sklearn, Scipy, Tensorflow
Writing and Drawing	LATEX, TikZ, MS word, Notepad ++

Research & Project Experience

Development of learning-based approach for data prediction

- Performed comparative performance analysis of several learning techniques for the **ML-based** BP estimation system.
- Evaluated different data regression techniques to determine the complex relationship between Blood Pressure and other physiological parameters.
- Collaborated with research teams from IITs working on various AI technologies, including data acquisition and deep learning models.
- Platform/Libraries: MATLAB, Python, Numpy, Pandas, Matplotlib, Scipy

Design and development of learning-based predictive model for a long-term evaluation of complex nonlinear structure of data

- Designed **artificial intelligence** solutions with the proposed integrated framework to provide predictive analytics.
- An advanced learning model is proposed for long-term dependencies and evaluation of the complex nonlinear structure of BP.
- The developed integrated framework of statistical and deep learning networks (LSTM) set up an impressive prediction model to help healthcare professionals.
- Achieved 97% accuracy in data prediction by the proposed hybrid learning model.
- Support the application of AI technologies for time series modeling, including regression and classification models.
- Platform/Libraries: MATLAB, Python, Numpy, Pandas, Matplotlib, Scipy, Sklearn, Tensorflow

Skills & Interest

Education

Bachelor of Technology (B.Tech) Dr. Babasaheb Ambedkar Technological University, Lonere.

Awards & Certification

- Awarded by Dr. Babasaheb Ambedkar National Research Fellowship (BANRF), 2023.
- Qualified GATE 2024 (IN)
- Certification in Machine Learning and Data Science with AWS by Udemy
- Certification in 100 Days of Code: The complete Python Pro Bootcamp for 2024 by Udemy
- Certification in Introduction to Natural Language Processing by Great Learning
- Certification in Data Science Course-Mastering the Fundamental by Scaler
- Certification in Deep Learning Course-Deep Dive into Deep Learning by Scaler

Contact Number _____

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