Jay Shahapurakar

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Linkedin | **GitHub**

Education

Visvesvaraya Technological University — Belgaum,Karnataka,India
Computer Science Bachelor Of Engineering — June 2020 - June 2024
Percentage: 78%

Maratha Mandal Integrated PU — Belgaum,Karnataka,India
PCMCS Science PUC — June 2018 - June 2020

Experience

GtechnoHubb Solutions | AI Engineer — Bangalore,Karnataka,India | April 2025 - Present

AI Engineer at GTechnohubb Solutions

Responsible for designing, developing, and deploying AI and machine learning models for real-world applications. Work involves data preprocessing, model training, and integration using Python, deep learning frameworks, and Flask-based web applications to deliver intelligent and scalable solutions.

NullClass | Data Science Intern — Dharmapuri,Tamil Nadu | Dec 2024 - Present

Worked on an Emotion Detection project, leveraging machine learning techniques to analyze and classify emotions from input data.

Fine-tuned existing machine learning models to improve performance, achieving a significant boost in accuracy from 56% to 64%.

Collaborated with team members to evaluate model performance using appropriate metrics and fine-tune hyperparameters.

Internship Studio | Data Science Internship — Pune,Maharashtra | Aug 2024 - Nov 2024

Assisted in collecting, cleaning, and preprocessing large datasets for analytical and predictive modeling tasks.

Created insightful data visualizations and dashboards using tools such as Matplotlib, Seaborn, or Power BI to communicate findings to stakeholders.

Documented workflows, processes, and technical findings to ensure reproducibility and clarity.

Eysec Cyber Security | Machine Learning Intern — Belgaum,Karnataka | Aug 2023 - Sep 2023

Performed exploratory data analysis to identify patterns, trends, and potential features for machine learning models

Developed efficient data preprocessing pipelines for faster model training and improved performance

Tuned models to boost performance from 84 % to 87.58 %

Skills

Programming Languages:	Python, SQL
Libraries/Frameworks:	Pandas, Numpy, Matplotlib, Scikit-learn, TensorFlow, Keras, NLTK, SciPy
Tools / Platforms:	Jupyter Notebook, Google Colab, VS Code, Git/GitHub, Power BI
Databases:	SQL, MongoDB, AWS S3/Google Cloud Storage, MySQL

Projects / Open-Source

Credit-Card-Default-Prediction Public | Link *Python ,Machine Learning*

Utilized XG Boost, an advanced gradient boosting algorithm, to build a high-performing classification model.

Preprocessed and cleaned data using Pandas and NumPy to handle missing values, categorical features, and outliers.

Implemented the model in a Flask web application, enabling real-time prediction and deployment for user interaction.

Evaluated model performance using metrics like accuracy, precision, recall, and F1-score to ensure reliable predictions.

Achieved a accuracy of 84%, significantly improving response times. Enhanced system efficiency by 8%.

Emotion Detection *Python , OpenCV , Deep Learning CNN*

Developed an Emotion Detection system to recognize human emotions from facial expressions.

Utilized Convolutional Neural Networks (CNNs) to classify emotions, achieving high accuracy in facial expression recognition.

Trained the model on a dataset of facial expressions, identifying emotions like happy, sad, angry, surprised, and others.

Anomaly Detection *CNN, LSTM, OpenCV*

Developed an anomaly detection system using CNN and LSTM to identify unusual activities such as accidents and robberies, and to automatically alert emergency services.

Achieved a detection accuracy of 92%, significantly improving response times. Enhanced system efficiency by 15%

Certifications

- Data Analysis with Python - **Cognitive Class**
- Certificate Of Training - **Internship Studio**
- Certificate Of Internship - **Internship Studio**
- Certificate Of Training - **NullClass**