

Yashodatta Patil

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Profile

Passionate about Machine Learning and Generative AI with a solid foundation in developing models and algorithms. Skilled in Python, data analysis, and AI frameworks like TensorFlow, PyTorch, and Scikit-learn. Eager to apply AI techniques to solve real-world problems and contribute to innovative solutions.

Experience

Data Analyst

2024 Jun – 2024 Dec

Aarohiinfo Information Technology

- **Created interactive Power BI dashboards** to help users understand data and make informed decisions.
- **Optimized existing dashboards** by adding new visuals and features to enhance the decision-making process.
- **Used SQL to pull data** from databases and prepare it for dashboards and analysis.
- **Cleaned and transformed data in Excel** to maintain accuracy and readiness for use in dashboards.
- **Worked with other teams** to make sure the dashboards and reports met their needs.
- **Streamlined reporting workflows** by automating repetitive processes, saving time and reducing errors.

Data Analyst Intern

2024 Jan – 2024 Feb

Intern Career

- **Analyzed real-world dataset**, the "Global Terrorism Dashboard". Ensured data integrity through meticulous cleaning and preprocessing. Utilizing tools like Power BI and Excel, extracted valuable insights.
- **Utilized data exploration techniques** to understand dataset structure, conducted trend analysis to identify popular content categories and correlations between subscriber counts and engagement metrics, and performed audience studies to uncover regional content preferences, informing targeted content strategies

Data Science Intern

2023 Nov – 2023 Oct

Psyliq

- **Developed a comprehensive** HR dashboard providing an overview of key HR metrics and improved data visibility resulted in a 20% increase in data-driven decision-making.
- Leveraged advanced excel functionalities to analyze employee datasets, focusing on factors such as productivity and engagement.
- **Applied SQL skills** to analyze Diabetics predictions datasets, extracting meaningful information related to patient health trends.

Projects

Personal cold email generator

Skill :- Streamlit, llm3, langchain, chromadb

Cold email generator using groq, langchain and streamlit. It allows users to input the URL of a company's careers page. The tool then extracts job listings from that page and generates personalized cold emails. These emails include relevant portfolio links sourced from a vector database, based on the specific job descriptions.

Maintenance Cost Minimization of Machinery for Wind Energy Production Using Machine Learning

Skill :- Python, Scikit-learn, Pandas, Numpy, Data analysis

Developed a machine learning model to optimize maintenance costs for wind energy production by predicting machinery failures and suggesting preventive measures. Utilized historical data to train predictive models that forecast equipment performance and identify high-risk maintenance intervals. Implemented algorithms in Scikit-learn to improve accuracy and reduce unnecessary maintenance costs, ultimately enhancing operational efficiency.

Metal casting product image classification

Skill :- Deep Learning, Keras, TensorFlow
Developed an image classification model to detect defects in the metal casting process using Deep learning. This deep learning model aimed to automate the quality control process, which traditionally relies on manual inspection. The model was trained on casting images to identify irregularities, significantly improving defect detection accuracy and reducing human error. The solution has the potential to minimize revenue loss by streamlining the quality control process in the manufacturing industry.

Sentiment Analysis Using LSTM

Skill :- TensorFlow, Keras, NLP, LSTM, Pandas, NumPy, Scikit-learn
Developed a sentiment analysis model using LSTM to classify text as positive or negative. Preprocessed textual data using tokenization, padding, and word embeddings. Built and trained an LSTM-based neural network achieving 79.16% accuracy on test data. Evaluated the model using accuracy score. Implemented a real-time prediction system for user-input text sentiment classification.

Skills

Programming Language Python , SQL	Database Management MYSQL, SSMS	Data Visualization Tool Tableau , PowerBI , Microsoft Excel	Mathematics and Statistics Hypothesis Testing, Probability, statistics Analysis
Python Libraries Pandas, Numpy, Matplotlib, seaborn, Scikit-learn, TensorFlow, Keras	Machine Learning Supervised Learning, Unsupervised Learning, Time Series	Deep Learning ANN, CNN, RNN, LSTM, Computer Vision, Natural Language Processing	Gen AI llm3, langchain

Education

Post-Graduation in Data Analytics And machine Learning IMARTICUS LEARNING	2022 – 2023 Pune
B-Tech in Mechanical Engineering Dr. Babasaheb Ambedkar Technological University CGPA = 8.74	2018 – 2022 Lonare

Certificates

- Oracle Cloud Infrastructure 2024 Generative AI Certified Professional
- Lean Six Sigma(White Belt)

Languages

- Marathi
- English
- Hindi