

TANISHA MAHATA

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Detail-oriented and logic-driven enthusiast data analyst with a passion for transforming data into actionable insights. With a disciplined, results-oriented mindset, I am ready to turn academic excellence into impactful contributions in the dynamic field of analytics.

EDUCATION

Master of Science in Data Science- 9.13 CGPA

Aug 2023 - Present

Vellore Institute of Technology (VIT vellore)

Bachelor of Science in Computer Science - 9.61 CGPA

Sep 2020 - June 2023

SIES Arts, Science and Commerce (Mumbai University)

High Secondary - 82.6%

May 2020

Kendriya Vidyalaya AFS Thane

Senior Secondary - 90.8%

May 2018

Kendriya Vidyalaya AFS Thane

TECHNICAL SKILLS

- **Programming:** Python (Proficient), SQL
- **Web Development:** React JS
- **Data Visualization:** Matplotlib, Seaborn
- **Machine Learning:** Regression, Classification, Decision Trees, SVM, Neural Networks
- **Deep Learning:** CNNs, RNNs, LSTMs
- **NLP & LLMs:** Text preprocessing, Fine-tuned pre-trained model, Agentic Workflows
- **Version Control:** Git (Familiar)

PROFESSIONAL EXPERIENCES

Mettler Toledo – GBSI

Jan 2025 – Present

Business Process Automation Intern

- Automated manual business processes by developing Python scripts and implementing fine-tuned Large Language Models (LLMs) for process optimization.
- Conducted model training and fine-tuning to adapt LLMs to specific business workflows, improving operational efficiency.
- Contributed to a CFO-level Django web application project, enhancing financial reporting and automation capabilities.

Internship at Oasis Infobyte (Python Programmer)

1 month

- From voice assessment to client-server connectivity, each project has propelled me towards new horizons.

Freelancing as Video Editor

6 months

- Implemented clients requirements.
- Forced to become more creative within boundaries.

PROJECTS

Rice Leaf Detection using CNN (Research Paper)

CNN Image Analysis

Our research proposes using Convolutional Neural Networks (CNNs) to automatically detect these issues in rice leaves. We **utilize transfer learning with pre-trained** CNN models, followed by data preprocessing, model design, and training.

Newsletter Automation:

LLM and crewAi agent

Built a monthly newsletter generator that takes a list of released bots, uses agents to fetch data via APIs and OpenRouter, and generates engaging HTML content automatically.

Utilizing Time Series Analysis for Stock Price Prediction: Investigating Forecasting Techniques and Models

Long Short Term Memory (RNN)

This research, aims to study the **importance of feature-selection** for prediction accuracy in stock-price forecasting by introducing an additional column of **Relative Strength Index (RSI)** and incorporating techniques of RNN (Recurrent Neural Network) and LSTM (Long-Short Term Memory) with an aim to provide better and valuable insights for investing in stocks.

HR Analytics Dashboard

Tools: Power Bi

This project highlights my ability to use **data visualization and analytics tools** to identify key insights and provide actionable recommendations.

HR analytics aim to provide insight into how best to manage employees and reach business goals. The objective is to monitor key HR metrics on employees and identify **what factors impact attrition**.

Groffice (Chat app)

Tools: Reactjs, Firebase

A chat application that established a well-organized group framework; the solution reduced the time spent locating conversation threads by 40%, allowing teams to focus on high-priority tasks.

ACHIEVEMENTS

- Certificate of Merit Scholarship (2024).
- NPTEL (Python for Data Science) - 77% (2022)
- NPTEL (Joy of Computing using python)- 90%
- NPTEL(Data Structure and Algorithms using python). (2021)