TANAY JAISWAL
Sophomore Year Undergraduate, CSE

in Tanay-Jaiswal | +91-7982526883
tanay.jaiswal2023@vitstudent.ac.in

Academic Qualifications

*Upto 3nd Sem

Year	Degree/Certificate	Institute	Performance
2023 - 2028	Integrated M.Tech.	Vellore Institute of Technology, Vellore	7.81*/10
2022	Class XII (CBSE)	St. Paul's School, New Delhi	73.16%
2020	Class X (CBSE)	St. Paul's School, New Delhi	80.20%

Work Experience

Teachnook, Remote | AI intern *Mar'24 - April'24*

Objective	• To gain hands-on experience and deepen understanding of Artificial Intelligence concepts and applications. • To collaborate with industry professionals and enhance technical skills in AI through practical projects..
Approach	• Engaged in a structured learning program in collaboration with Cognizance'24 IIT Roorkee and Teachnook. • Engaged in a structured learning program in collaboration with Cognizance'24 IIT Roorkee and Teachnook.
Outcomes	• Successfully completed the course, demonstrating a strong grasp of AI fundamentals and practical implementation. • Recognized as a keen and enthusiastic learner, contributing effectively to team projects and discussions.

Projects

Hate Speech Detection | NLP Project | *(Feb'24)*

- Utilized a dataset of **more than 3.5 Lakhs** customer transactions, focusing on detailed purchase behavior, demographics, and transaction frequency to effectively segment customers for targeted marketing and comprehensive behavioral analysis.
- Conducted data cleansing, preprocessing, exploratory data analysis, and feature engineering, followed by applying **K-Means and Hierarchical Clustering** algorithms to identify the most optimal customer groups, resulting in **3 distinct clusters** for targeted marketing.
- K-Means clustering achieved a higher **silhouette score (0.714)** and lower **Davies-Bouldin Index (0.706)**, indicating more distinct and well-separated clusters compared to Hierarchical Clustering, thus demonstrating superior clustering performance.

Insurance Subscription Prediction | Supervised Learning Project | *(June'24)*

- Developed a machine learning model to predict insurance subscriptions using demographic and marketing data, applying advanced algorithms to uncover significant trends, enhancing decision-making and optimizing marketing efforts for better conversion rates.
- Conducted data cleaning, exploratory data analysis (EDA), and feature engineering; developed and fine-tuned **7 machine learning models**; and applied **ADASYN** to effectively address class imbalance and significantly enhance model performance.
- Achieved a high-performance **Gradient Boosting model** with an **ROC AUC score of 0.986** and a **mean accuracy of 0.773**, identified **call duration as the key predictor**, and demonstrated advanced skills in deriving actionable insights and optimizing accuracy.

Analyzed customer data to boost shopping sales turnout insights | Data Analytics Project | *(March'24)*

- Analyzed Flipkart's product data to identify trends, customer preferences and emerging patterns in retail and e-commerce.
- Utilized **Python tools and libraries** for data cleanup, analysis and visualization to transform raw data into meaningful insights.
- Generated insights aiding decision-making in retail and e-commerce based on identified trends and customer preferences.

Technical Skills

Languages: C, C++, Python, MATLAB, SQL	**Libraries**: Pandas, Numpy, Matplotlib, Streamlit, Tensorflow, Sklearn
Data Analysis: EDA, Data Preprocessing, Data Visualisation	**Utilities**: VS Code, PowerBI, Anaconda, Git, MySQL, Microsoft Office

Relevant Courses

*Ongoing

Artificial Intelligence*	Operating Systems*	**Data Structures and Algorithms**
Statistical Methods and Data Analysis	Financial Engineering	Real Analysis and Calculus
Data Base Management System	Theory of Computation*	Computational PDEs*

Achievements

- Solved **300+ DSA Problems** on GeeksforGeeks. *Sept'24*
- In Top **2.5%** of JEE (Advanced and Mains) 2022. *Sept'22*
- In **Top 0.0005%** of NSTSE internationally 2021-2022. *Jan'22*
- In **Top 5%** of SOF olympiads IMO, NSO(Math,Science). *'19 to '22* *Jan'20*
- In **Top 2** Positions in **State Level** Singing Competitions *Nov'19*