Sucheta Nandi

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Education

VIT Bhopal University	Bhopal, Madhya Pradesh
B. Tech in Computer Science and Engineering – 9.10 CGPA	Sep 2022 – May 2026

12th Standard

St. James' High School	Binnaguri, West Bengal
ISC Percentage: 92.5%	Jun 2022

10th Standard

St. James' High School	Binnaguri, West Bengal
ICSE Percentage: 96.6%	Jul 2020

Technical Skills

Languages: Python, SQL, Java
Frameworks: Seaborn, Matplotlib, Pandas, TensorFlow, Scikit-learn
Tools: Power BI, Tableau, Microsoft Office Suite (Word, Excel, PowerPoint)

Projects

E-commerce Product Performance Analysis | Data Analysis   Aug 2025

- Consolidated and transformed 200,000+ product listings using Python, creating a cleaned dataset for analyzing market trends, pricing, and competitive positioning.
- Built an interactive Tableau dashboard to visualize market share, price-to-rating correlation, and category performance, enabling deep cross-category analysis.
- Translated quantitative findings into actionable business insights and delivered strategic recommendations on market entry and investment.

Cardiovascular Diseases Detection using ECG data | ML   Dec 2024 – Apr 2025

- Developed a model to predict cardiovascular diseases (CVDs) using the MIT-BIH Arrhythmia Database with 87553 observations and PTB Diagnostic ECG Database with 14552 observations.
- Implemented preprocessing techniques including wavelet transformation and SMOTE on the datasets and used it to train XGBoost Classifier model.
- Collaborated with 5 members to build the project where I was responsible for developing the model and conducting performance analysis.

Backpack Price Predictor | ML   Mar 2025

- Analyzed a dataset over 300000+ backpack listings and developed an XGBoost Regressor model to predict backpack prices.
- Engineered a data preprocessing pipeline using pandas and scikit-learn, handling missing values, outliers, and categorical variables to improve dataset quality for modeling.
- Performed exploratory data analysis (EDA) with matplotlib and seaborn, uncovering key pricing trends (e.g., brand, material, and size correlations) to guide feature selection.

Destination Recommendation System | NLP   Feb 2025

- Developed a content-based recommendation engine using Cosine Similarity to suggest personalized tourist destinations from a dataset of 2000+ entries based on user text input.
- Engineered a robust NLP text preprocessing pipeline with spaCy and NLTK, implementing lemmatization, stopword removal, and punctuation handling to transform unstructured text into model-ready features.
- Utilized TF-IDF vectorization to encode textual features and built a similarity kernel to accurately match user preferences with relevant destinations.

Extracurricular

Dance

- Professionally trained and certified by Pracheen Kala Kendra in Odissi. Actively participated in group and solo dance competitions across various towns for 10+ years.

Arts

- Professionally trained and certified by Kala Bharati Sangeet Academy in Painting. Actively participated in painting and art competitions across various clubs.

Additional

Languages: Hindi, Bengali, English
Certificates:
NPTEL: Marketing Analytics
Cognitive Class: Data Analysis with Python, Machine Learning with Python, Data Visualization with Python, SQL and Relational Databases 101