Ayushman Anupam
Data Science Student

CONTACT

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GitHub:
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Location:
Jamshedpur, Jharkhand, India

SKILLS

Programming Languages:
R, Python, SQL

Statistical Programming
Proficient in Python and machine learning modules Pandas, NumPy, Matplotlib, Plotly, Seaborn.

Problem Solving

LANGUAGES

- English
- Hindi (Native language)

PROFILE

I am a Data Science student with a strong passion for learning and exploration. With a background in Mathematics, I have developed a keen interest in areas such as Statistics, Probability, Graph Theory, and Economics. I have worked on ML projects involving Recommender Systems, Credit Risk Modeling, and an R-Shiny Dashboard for analyzing Amsterdam house prices.

EDUCATION

Chennai Mathematical Institute   **Chennai, Tamil Nadu**
M.Sc in Data Science   August 2024 – Present
Key subjects: SQL and RDBMS, Python, Data Visualization, Mathematical Analysis, Linear Algebra.

Indian Statistical Institute   **Bangalore, Karnataka**
BMaths. (Hons.)   2020 – 2024
Key subjects: Probability, Statistics, Optimization, Computer Science, Economics and Graph Theory.

PROJECTS

CreditRisk - Predicting Borrower Reliability   **Jan 2022**
- Developed and implemented different binary classification models to identify customers at risk of credit default and assess the associated lending risk.
- Evaluated each model and got accuracy of 0.97, recall and precision of 0.89 and 0.79 for defaulters and 0.98 and 0.99 for non-defaulters respectively.
- Did feature selection and compared weight of each feature with respect to different model to identify key features associated with credit default.

Project link: CreditRisk-Predicting-Borrower-Reliability

Heartbeat Sentinel - Predicting Heart Failure   **Nov 2024**
- Developed, optimized and implemented Random Forest and XGBoost models to predict heart failure risk, achieving 90% accuracy.
- Deployed a Streamlit app to classify heart failure risk.
- Performed data preprocessing, feature selection, and model evaluation using metrics such as accuracy, precision, recall, F1-score, and ROC-AUC.
- Analyzed results to identify key risk factors and early warning systems for heart disease.

Project link: **Heartbeat Sentinel - Predicting Heart Failure**

Chennai Temperature and Precipitation Forecasting   **Oct 2024**
- Developed and implemented a time-series model for weather forecasting including average, minimum, and maximum temperatures for Chennai, achieving RMSE values of 1.21, 1.31, and 1.84, respectively.
- Utilized MultiOutputRegressor with LGBMRegressor for model training and evaluated performance using metrics such as MAE, MAPE, and RMSE to ensure accuracy and reliability

Project link: Chennai Temperature and Precipitation Forecasting

POSITION OF RESPONSIBILITY

- Volunteered in Blood Donation Camp
- Volunteering in NGO
  "Malakar Kalyan Samiti, Jharkhand"
- Served as Treasurer in Interact Club,
  2016-18 (School Branch of Rotary club)

ACHIEVEMENTS

- **GATE 2024** (Statistics): AIR 271
- **Indian Statistical Institute (ISI)**
  MS QMS 2024 Entrance Exam**:** Rank 1
- JEE Mains, 2020 all India Rank - 4652
- JEE Advance, 2020 all India Rank - 7658

INTERNSHIPS

Data Scientist internship   **Dec 2024**
At: **COTHON SOLUTIONS**
- Developed machine learning models for customer segmentation, e-commerce recommendations, and heart risk prediction.
- Evaluated methodologies, results, and insights for each project to ensure accuracy and effectiveness.

Finance and Stock Market Internship- trainee   **Nov 2024 – Dec 2024**
At**: CAPITAL VISION INVESTMENT**
- Assisted in portfolio management, risk assessment, and equity selection, gaining hands-on experience in financial investment strategies.
- Developed a foundation in financial markets, covering mutual funds, National Pension System (NPS), fixed deposits, and tax-efficient investment options.

SKILL DEVELOPMENT CERTIFICATIONS

- **Machine Learning Specialization**: DeepLearning.AI
  a. Unsupervised Learning, Recommenders
  b. Supervised Machine Learning: Regression and Classification
  c. Advanced Learning Algorithms
- **Decision Tree, Random Forest, AdaBoost and XGBoost in Python**: Udemy
- **Game theory:** Stanford University
- **Data Structure and Algorithm**: Udemy
- **Preparatory Certificate in Finance and Financial Markets :** CFI