Ayushman Anupam

Data Science Student

CONTACT

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GitHub:
https://github.com/AyushmanGHub

Location:
Jamshedpur, Jharkhand, India

SKILLS

- **Programming Languages**:
  R, Python, SQL
- numpy, pandas
- seaborn, matplotlib, plotly
- Problem Solving

LANGUAGES

- English
- Hindi (Native language)

PROFILE

I am a Data Science student with a deep passion for learning and exploration. Coming from Mathematical background, I have developed a keen interest in areas such as Statistics, Probability, Graph Theory, and Economics. I have worked on projects to develop Recommenders-System, Credit Risk Model, R-Shiny Dashboard – for decoding Amsterdam House prices, where I have used several ML model and data-analysis methods.

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.

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

PROJECTS

Heartbeat Sentinel - Decoding and Predicting Heart Failure　　　Nov 2024
- Developed and implemented Random Forest and XGBoost models for predicting heart failure risk and received accuracy of 90%.
- Conducted data preprocessing, feature selection, and model evaluation using metrics like accuracy, precision, recall, F1-score, and ROC-AUC.
- Analyzed results to identify critical risk factors and support early.

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

Chennai Temperature and Precipitation Forecasting　　　Oct 2024
- Developed and implemented a weather forecasting solution to predict daily average, minimum, and maximum temperatures for Chennai.
- Used MultiOutputRegressor with LGBMRegressor for model training data.
- Evaluated model performance using metrics such as MAE, MAPE, and RMSE to ensure accuracy and reliability and analyzed features and optimized the model to improve forecasting precision.

Project link: **Chennai Temperature and Precipitation Forecasting**

Availability, Accessibility and Inequality of WASH　　　Dec 2022
Mentor: Prof. Rituparna Sen
　　　　　Indian Statistical Institute, Bangalore
- Conducted an in-depth analysis of inequality in access to Water, Sanitation, and Hygiene (WASH) services across six major Indian cities of India.
- Used indices such as Gini, Theil, and Atkinson for disparities and track improvements in WASH services.

Project link: **https://www.isibang.ac.in/~rsen/Stat1/2.pdf**

POSITION OF RESPONSIBILITY

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

HOBBIES

Reading Novels and Mangas, Watching Anime, Cooking, Teaching

INTERNSHIPS

Data Science internship   **Dec 2024**
At: **COTHON SOLUTIONS**
- Developing machine learning projects for Customer Segmentation, Ecommerce Recommendations, Heart-Risk prediction, etc.
- Evaluated methods, results, and insights of each project.

Finance and Stock Market Internship- trainee   **Nov 2024 – Dec 2024**
At**: CAPITAL VISION INVESTMENT**
- Gained foundational knowledge in financial and investment markets, including mutual funds, NPS, FD, and tax-saving options.
- Contributed to portfolio management, risk management, stock selection, while exploring career opportunities in the finance industry.

SKILL DEVELOPMENT COURSES

- **Machine Learning Specialization**: Coursera Online Certification
  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:** Coursera Online Certification
- **Data Structure and Algorithm**: Udemy
- **Basic Python and Python for Data Science:** IBM
- **SQL complete Bootcamp from Basics to Advanced**: Udemy
- **ChatGPT and GPT-4 LLM Guide- Prompt engineering**: Udemy

ACHIEVEMENTS

- **GATE 2024:** All India Rank 271, Statistics
- Rank 1 in **MS QMS 2024** entrance Examination
  Indian Statistical Institute
- JEE Mains, 2020 all India Rank - 4652
- JEE Advance, 2020 all India Rank - 7658