



## 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)

# Ayushman Anupam

Data Science Student

## 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

M.Sc in Data Science

**Key subjects:** SQL and RDBMS, Python, Data Visualization, Mathematical Analysis, Linear Algebra.

Chennai, Tamil Nadu

August 2024 – Present

### Indian Statistical Institute

BMaths. (Hons.)

**Key subjects:** Probability, Statistics, Optimization, Computer Science, Economics and Graph Theory.

Bangalore, Karnataka

2020 – 2024

## PROJECTS

### CreditRisk - Predicting Borrower Reliability

Jan 2022

- Developed and implemented multiple 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.
- Compared feature selection and feature weigh of each feature with 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 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 enhance early warning systems for heart disease.

**Project link:** [Heartbeat Sentinel - Predicting Heart Failure](#)

### Chennai Temperature and Precipitation Forecasting

Oct 2024

- Developed and implemented a weather forecasting model to predict daily 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

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- 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

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- **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

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### **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**

- 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 CERTIFICATIONS

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- **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](#)