



CONTACT

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GitHub:
<https://github.com/AyushmanGHub>

Location:
Jamshedpur, Jharkhand, India

SKILLS

Programming Languages:
R, Python, SQL, Latex

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

MS Office
Word, Excel, PowerPoint, PowerBI

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, Economics and Finance. I have worked on Machine Learning projects such as Recommender Systems, weather forecasting and Credit Risk Modeling. Additionally, I developed an R-Shiny Dashboard for analyzing Amsterdam house prices.

EDUCATION

Chennai Mathematical Institute M.Sc in Data Science	2024 – Present CGPA – 8.62
Key subjects: SQL and RDBMS, Python, Data Visualization, Mathematical Analysis, Linear Algebra, DMML, Algorithm Design techniques.	

Indian Statistical Institute BMaths. (Hons.)	2020 – 2024 Percentage – 63%
Key subjects: Probability, Statistics, Optimization, Computer Science, Economics and Graph Theory.	

PROJECTS

CreditRisk - Predicting Borrower Reliability	Jan 2022
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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

Availability, Accessibility and Inequality of WASH

Dec2022

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.
- Utilized Gini, Theil, and Atkinson indices to measure disparities and track improvements in WASH services.

Project link: [WASH paper](#)

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](#)