



# Anup Kumar

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## Summary

- Strong foundation in **Data Structures and Algorithms** using **Java**, combined with hands-on experience in developing machine learning models and working with real-world datasets.

## Projects

- **House Price Prediction**  GitHub Pandas, Scikit-learn, Regression
  - Worked on Kaggle's Ames Housing dataset to predict house prices using **Linear Regression**.
  - Cleaned and preprocessed the data by handling missing values and encoding categorical features.
  - Applied **log transformation** to the target variable to improve model performance.
  - Split data into training and validation sets, and achieved a good score with **RMSLE: 0.132**.
  - Created a complete notebook pipeline for data preparation, model training, and submission generation.
- **Sorting Visualizer**  GitHub HTML, CSS, JavaScript
  - Built an interactive tool visualizing 5+ sorting algorithms (Bubble Sort, Quick Sort) using HTML/CSS/JS, increasing engagement by 30%.
  - Optimized JavaScript execution by 15% and applied smooth CSS transitions for responsiveness.

## Work Experience

- **Frontend Development Intern** — Cognifyz Technologies Jan 2026 – Feb 2026
  - Developed a **responsive and interactive** web application using HTML, CSS, and JavaScript, integrating APIs and dynamic UI features to enhance user experience.
  - Improved performance and stability by identifying critical issues, optimizing testing workflows, and collaborating with R&D teams for efficient debugging.
- **Data Science Intern** — Celebal Technologies Nov 2025 – Dec 2025
  - Developed a **Spam Email Detection** model to classify emails as **spam or not spam**.
  - Cleaned and preprocessed **large email datasets** for effective model training.
  - Evaluated model performance using **accuracy, precision, recall, and confusion matrix**.

## Skills

- **Languages:** Java, Python, SQL
- **Data Analysis:** Pandas, NumPy
- **Visualization:** Matplotlib, Seaborn
- **Machine Learning:** Scikit-learn, TensorFlow
- **Model Evaluation:** Accuracy, Precision, RMSE, Cross-validation
- **Databases:** MySQL
- **CS Fundamentals:** Data Structures & Algorithms, OOP, DBMS, OS, CN

## Education

<b>Noida Institute of Engineering and Technology</b> <i>Bachelor of Technology (B.Tech) in Computer Science(IOT) — CGPA: 8.0/10.0</i>	<b>2023 – 2027</b> <i>Greater Noida, Uttar Pradesh</i>
<b>May Flower School</b> <i>Higher Secondary Education (CBSE)</i>	<b>2020 – 2022</b> <i>Patna, Bihar</i>
<b>Scholar's Abode School</b> <i>Senior Secondary Education (CBSE)</i>	<b>2019 – 2020</b> <i>Patna, Bihar</i>

## Achievements

- Solved **300+** **DSA problems** on LeetCode and GeeksforGeeks.
- Led a Team of 4 to develop a working **IoT-based Oxygen Supply System**.
- Achieved a **Competitive Programming rating of 1500+**.

## Certifications

- **Network Technician Career Path** — Cisco Networking Academy