

Apurav Jain

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SKILLS

- **Languages:** Java, Python, R, JavaScript
- **Frameworks:** HTML and CSS
- **Tools/Platforms:** MySQL, Amazon Web Services (AWS), PowerBI, Tableau, Excel, TensorFlow
- **Technologies:** Machine Learning, Predictive Analysis, A/B Testing, Linux, Quantitative Analysis, Big Data, GitHub
- **Soft Skills:** Statistical Analysis, KPI Monitoring & Reporting, Pattern Recognition, Emotional Intelligence, Project Management, Problem-Solving, Team Coordination

TRAINING

- **E&ICT Academy – IIT Kanpur & MeitY, Govt. of India** Jul 2024 - Aug 2024
Cloud Architect
 - **About:** Designed and deployed a secured **AWS VPC** with the public (DMZ) and private subnets deploying a public EC2 web server and a private **RDS database** with restricted access via **NAT Gateway**, IAM, security groups.
 - **Tech stacks used:** AWS, Amazon VPC, NAT Gateway, Amazon EC2, Amazon RDS
- **Times of India** Jan 2024 - May 2024
Freelancer
 - **Project Overview:** Analyzed and managed data ensuring accurate data entry, processing, and **insights generation**. Performed data cleaning, validation, and **trend analysis** to support decision-making.
 - **Tech stacks used:** Excel, Python (Pandas, NumPy)

PROJECTS

- **Person Loan Default Prediction:** Jan 2025
Built a machine learning model to analyze and predict employee attrition, achieving 97% accuracy. Performed Data preprocessing, **feature engineering**, and handling **class imbalance** for accuracy. Evaluated model performance using ROC, precision-recall and F1- score for balanced classification.
Tech: Python (Pandas, NumPy), Scikit-learn, XGBoost, Matplotlib, Seaborn
- **Employee Attrition Risk Analysis:** Dec 2024
Developed and implemented a machine learning-based **predictive model** to analyze employee attrition risk. Identified key factors influencing **attrition** through exploratory data analysis (EDA) and **statistical insights**. Provided actionable, data-driven recommendations to enhance **organizational strategies** for attrition.
Tech: R, dplyr, ggplot2, caret, randomForest, **XGBoost**
- **The Face Liveness Detection Model:** Jan 2025
Developed a face authentication model with **liveness detection** for **UIDAI**, ensuring secure verification. Implemented **YOLO**-based face detection and applied data preprocessing for **robust model training**. Optimized ML models with **ONNX**/Tensor.js for real-time (≤ 500 ms) detection within a 5MB size limit.
Tech: Python, YOLO, OpenCV, TensorFlow, ONNX, Tensor.js, NumPy, Pandas, Flask

CERTIFICATES

- Introduction to Machine Learning | NPTEL July 2024 - Oct 2024
- Data Analysis with Tableau | Tableau Oct 2024 - Nov 2024
- Supervised Machine Learning: Regression and Classification | Stanford Online Sep 2024 - Aug 2024
- Excel Skills for Data Analytics and Visualization | Macquarie University Mar 2024 – Apr 2024

ACHIEVEMENTS

- **Ranked among the Top 10% of the students on the Dean’s List at the university.** February 2024
Recognized for academic excellence and active contributions to extracurricular activities at the university.
- **Finalist, Smart India Hackathon, 2024.** October 2024
Competed in the national-level innovation challenge & built a model for UIDAI.
- **Gold Medalist, International Math Olympiad.**
Achieved International Rank: 4819, All India Rank: 332, and State Rank: 14.

EDUCATION

- **Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering August 2022 – July 2026
- **DS Science Academy** Rajasthan, India
Intermediate May 2021 - June 2022
- **DS Science Academy** Rajasthan, India
Matriculation April 2019 - May 2020