

RIPUNJAY KUMAR

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EDUCATION

Indian Institute of Technology Madras

BS in Data Science & Artificial Intelligence

Present

University of Delhi

BSc. Mathematics Honours

CGPA: 8.0/10

EXPERIENCE

Assistant Production Planning and Control

MCAM Surlon India Ltd.

July 23 - Sep 23

- Leveraging Excel skills to **analyze** sales data, **optimize** safety stock management, and drive **effective** supply chain strategies.
- Proficient in creating ledgers, managing inventory, and conducting **revenue and volume Pareto analysis**.
- Skilled in utilizing scatter plots to **visualize** data trends. Extracting valuable insights to inform strategic **decision-making**.

SKILLS

- **Programming:** Java, Python, JavaScript, HTML, CSS, SQL, Linux, Bash Scripting, LaTeX
- **Tools & Technologies:** MS-Excel, AWS Lambda, AWS Bedrock, Redis, Celery, Wireshark, Metasploit, Mathematica
- **Frameworks:** Vue.js, Flask, Bootstrap
- **Soft Skills:** Teamwork, Adaptable, Critical Thinking

PROJECTS

Business Growth Analytics Project

Business analytics

- Uncovered critical revenue patterns by analyzing 18-month sales data, revealing product performance and market concentration risks.
- Developed targeted recommendations were projecting **15-20%** revenue growth through product portfolio optimization.
- Utilized advanced analytical techniques including Python programming, market basket analysis, and statistical visualization methods.

Tools: Excel, Python, Pandas, Explanatory Data Analysis, Market Basket Analysis

Taxi Fare Prediction Model

Kaggle

- Developed predictive models to estimate the total amount paid by travelers for taxi rides.
- Performed Exploratory Data Analysis (EDA) to extract valuable insights from the dataset.
- Used features like total_amount, passenger count, and trip distance to train the model.
- Leveraged Python and machine learning techniques to improve prediction accuracy to **92%**

Tools: Python, Scikit-learn, NumPy, Pandas, Jupyter Notebook

Household Services App - Neato

Full Stack

- Developed a household services web app for booking and managing household tasks.
- Built backend using **Flask-RESTful API** with **SQLite** as the database and implemented **Celery** for task management.
- Utilized **Redis** for message brokering and **asynchronous** task handling.
- Designed and implemented the frontend using **Vue.js** for a seamless user interface.
- Incorporated features like user authentication, authorization, booking management, and task tracking.
- Implemented robust and fair scoring system by using **NLP Sentiment analyzer** on customer comments and giving score to professionals.

Tools: Vue.js, Flask-RESTful, SQLite, Bootstrap, JWT, NLP, Celery, Redis, HTML/CSS

Influencer Engagement and Sponsorship Platform - BuZZWorthy

Full Stack

- Created a platform to connect sponsors and influencers for advertising and promotion.
- Implemented using Flask, Jinja2 templates with Bootstrap, and SQLite for data storage.
- Developed features for admin dashboard, campaign management, and search functionality.
- Implemented Role Based Access Control (RBAC) in the Flask application.

Tools: Python, Flask, SQLite, Bootstrap, HTML/CSS, Jinja2

VOLUNTEERING







Indian Space Research Organization

7 Days

Exhibition Guide and Instructor

- Volunteered as a guide and instructor for ISRO exhibition.
- Researched about the satellites, achievements and history of ISRO from the provided material.
- Spread knowledge about ISRO's achievements and goals to exhibition visitors.

ACHIEVEMENTS & CERTIFICATIONS

- **2nd** place in ML Challenge 2.0 - IIT Madras 
- Real Estate Price Prediction Model - Google Developer Group 
- Cloud Architecture and Infrastructure Services - ICT Academy X Lenovo 
- AWS Lambda, AWS Bedrock - LinkedIn Learning  
- Ethical Hacking - NPTEL 
- SQL Injection Attack - EC Council 