Abhishek Dureja

+91-7206827430 | abhishek.dureja321@gmail.com | LinkedIn | Git Hub

Education

Chandigarh University — Mohali, Punjab
Bachelor of Engineering in Computer Science and Engineering(Hons.) — *Aug. 2021 – May 2025*

Experience

Data Analyst Intern — April 2025 – Present
Lyxel Labs Pvt. Ltd. — *Gurugram*

- Contributed to feature development for **Weavr**, a next-gen analytics platform, by designing and integrating new functionalities aligned with user needs.
- Performed end-to-end data analysis across multiple brands, generating actionable insights and delivering comprehensive analytical reports.
- Gained thorough exposure to the **Software Development Life Cycle (SDLC)** and collaborated cross-functionally with UI, backend, and data scraping teams to ensure seamless integration and delivery.

AI Intern — Dec. 2024 – March 2025
Affine Analytics — *Remote*

- Engineered a dynamic, real-time streaming avatar with full customization capabilities, leveraging **Retrieval-Augmented Generation (RAG)** frameworks.
- Pursued rigorous research and deployed diverse quantization techniques on **Large Language Models (LLMs)** to achieve computational efficiency without compromising model integrity or predictive accuracy.
- Architected and integrated **Light RAG** to enhance the scalability and responsiveness of **retrieval-augmented generation systems**, streamlining retrieval latency and boosting generation precision for specialized NLP applications.

Trainee — June 2023 – July 2023
Intel — *Chandigarh University, Mohali*

- Enhanced AI proficiency through the "AI Competence" training program.
- Collaborated with industry experts to grasp key AI concepts, applications, and trends.
- Gained hands-on experience with tools like **Teachable Machine, Tableau, Weka**, and **Orange** for data-driven AI experimentation.

Projects

AI-driven air quality prediction system | *ML, Power BI, HTML, Python* — Jan. 2025 – May 2025

- Developed an **AI-driven air quality prediction system** using Decision Tree Classifier, achieving a high accuracy of 96.8% on environmental sensor data.
- Preprocessed and structured air pollution datasets using **Python, Pandas, and Scikit-learn**, integrating features like particulate weight, humidity, and temperature.
- Conducted a comparative evaluation of multiple **machine learning algorithms** (Logistic Regression, KNN, Naïve Bayes, SVM) to benchmark model performance and interpretability.

Revenue Insights in Hospitality Domain | *Power BI, MS Excel* — Nov. 2024 – Dec. 2024

- Developed a dynamic **Power BI dashboard** delivering actionable insights within the Hospitality domain, leveraging historical data to uncover revenue trends, customer behavior patterns, and service ratings.
- Crafted to empower Revenue and Management teams in making informed, **data-driven decisions** and optimizing strategic planning and execution.
- Integrated data cleaning, modeling, and intuitive visualization to build an **interactive dashboard** delivering clear and **actionable business insights**.

Diwali Sales Analysis via EDA| *Python, MS Excel, Statistics* — Sept. 2024 – Oct. 2024

- Conducted comprehensive **Exploratory Data Analysis (EDA)** using **Pandas**, **Matplotlib**, and **Seaborn** to uncover key business insights.
- **Enhanced customer targeting strategies** by identifying high-potential segments across various states, occupations, age groups, and gender.

- **Boosted sales potential** by analyzing top-performing product categories, enabling more effective inventory planning and demand forecasting.

AI Based Moving Vehicle Registration Plate Detection |*Python, OCR, Open CV* July 2024 – Sept. 2024

- Engineered an **AI-based Vehicle License Plate Detection** system using **Python, OCR, and OpenCV**, enabling real-time recognition of moving vehicle plates.
- Applied **Canny edge detection and contour tracing** for accurate plate localization under diverse lighting and motion conditions.
- Integrated a vehicle information database to instantly retrieve ownership and registration details from detected license numbers.

COVID-19 Prediction System | *Python, Machine Learning, Statistics* Sept. 2023 – Jan. 2024

- Developed predictive **Machine Learning** models, including Logistic Regression and SVM, to classify potential COVID-19 infections based on symptom data.
- Preprocessed and analyzed a dataset of 4,000+ records using **Python**, emphasizing symptoms such as cold, cough, fever, and sore throat to improve model performance.
- **Led the project team** and owned critical coding components, contributing to the implementation of advanced algorithms and overall system functionality.

Library Management System | *CSS, PHP, Figma* Sept. 2023 – Jan. 2024

- Collaborated on a full-stack **Library Management System** built using **PHP** and **CSS**, aimed at streamlining the management of books, journals, and other library assets.
- Implemented key features including **User Management**, **Catalog Management**, **Check-In/Check-Out**, **Search and Discovery**, user history tracking, and reservation workflows.
- Designed an intuitive and user-centric interface using **Figma**, enhancing the overall user experience and usability of the system.

Technical Skills

Python, SQL, Advanced MS Excel, Power BI, Tableau, RAG, Machine Learning Techniques,PyTorch,Tensorflow, Scikit-learn, Artificial Intelligence, Gen AI, Statistical and Predictive Modeling, AWS, A/B Testing, Statistical Analysis, ETL, Data Science and Analysis.

Soft Skills

Decision Making, Problem Solving, Curiosity and Innovation, Product Thinking, Analytical Skills, Presentation, Project Management,Business Intelligence, Collaborative Teamwork, Critical Thinking, Leadership, Eager to Learn .