

Ridham Sharma

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EDUCATION

IK Gujral Punjab Technical University

Bachelor of Technology (Computer Science and Engineering)

2019 – 2023

SKILLS

Languages & Tools — Python, Statistics, Excel, Power BI, Git, Docker, Machine Learning, Natural Language Processing, Deep Learning, Flask, Generative AI.

Database — Mysql, MongoDB

PROFESSIONAL EXPERIENCE

Machine Learning Intern | Drift Developers

Jul 2022 – Dec 2022

- **Developed** an **NLP-based model** for **password strength prediction** by analyzing linguistic patterns and character sequences.
- Built an **end-to-end student performance prediction system** using an **ML pipeline** with CatBoost for optimal performance.
- **Deployed machine learning models** using **Docker** for **containerization** and **Git** for **version control** and **collaboration**.
- Collaborated with **cross-functional teams** to deliver **innovative** and **client-focused solutions** aligned with project requirements.

Junior Software Engineer, True North Marine (formerly Papersoft Technologies)

Apr 2024 – Dec 2024

- Conceptualized and **developed CNAV**, an innovative **ocean mapping solution** designed to integrate **real-time weather data**, supporting **safer** and **more efficient maritime navigation**.
- **Designed dynamic user interfaces** using Flet while **visualizing live weather maps** through the integration of Angular, Leaflet, and JavaScript for an interactive user experience.
- Strengthened application stability by ensuring seamless **API integration** and building **reliable backend systems** to manage real-time data processing.
- Identified and **resolved bugs**, continuously enhancing the **user experience** through meticulous front-end and back-end optimizations.
- **Monitored** and **analyzed real-time weather data** to optimize ship navigation strategies using statistical techniques and predictive modeling.

PROJECTS

Bank Loan Report [Power-BI| Excel| SQL| DAX]

- Analyzed **loan data** to identify patterns and improve **borrower risk assessment**.
- Applied **data analysis techniques** using **Python** and **SQL** to optimize decision-making processes.
- Enhanced **risk prediction**, enabling better **loan portfolio management**.
- Delivered improved outcomes by optimizing **portfolios** and increasing **ROI**.

Predict Stock Prices using Time Series Analysis [Power-BI| Excel| SQL| DAX]

- Designed a **time series analysis model** to forecast **stock price trends** for informed investment decisions.
- Leveraged Python and Power BI to analyze **historical data** and visualize **market patterns**.
- Enabled **strategic investment planning** through accurate trend predictions.
- Improved **risk management** by providing actionable insights into future **market behavior**.

Password Strength Prediction Model [Python | scikit-learn | Pandas | Jupyter Notebooks | Matplotlib | Seaborn]

- Developed an **NLP-based model** using **logistic regression** to assess password strength by analyzing linguistic patterns and structure.
- Engineered features like character diversity, sequence repetition, and special character usage to enhance password security predictions.
- Trained and fine-tuned the model to **classify passwords** effectively, providing insights for stronger password creation.

CERTIFICATES

Cloud Computing, — NPTEL

Programming in Python — VMM

Statistics for data science and business analytics — Udemy

Power BI — Udemy

Python for Data Science — Udemy

ACHIEVEMENTS

Technical Skills: Python, SQL (5 star on HackerRank)

IELTS: 7.0 bands.

Organizer/Coordinator: PACS Society in College.

Leetcode: Earned SQL Badge, Solved 100+ Problems.