

SAURABH BHARTI

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EDUCATION

DESHBANDHU COLLEGE, DELHI UNIVERSITY

October 2020 - 23

BSC Computer Science - 8.30 / 10 CGPA

NIELIT ROPAR, PUNJABI UNIVERSITY PATIALA

MSC Computer Science with Specialization in Data Science

July 2023 - Present

RESEARCH:

NICEDT 2025

1. Authored a paper titled **"IoT-Based Thermal Model to Predict the Operating Temperature of PV Modules."**
2. Presented a poster at the NICEDT 2025 AI track on **"Traffic Violation Detection and Monitoring Using the YAMNet Model for Acoustic Signal Recognition."**

PROJECTS

• Feed Flow: RSS Feed Reader

Created a RSS feed reader web app using Django web framework. The project implements feed subscription, fetching, parsing, , and article management features, including user authentication and read/unread status tracking. The system allows users to add RSS feed URLs, automatically fetch latest articles, and view them in a user friendly interface. It displays Django's ORM functionality to interact with SQLite Database created for feeds and feed articles.

• SQL Case Study:

Composed a series of retrieval queries on the restaurant database, leveraging several SQL features, including GROUP BY, Window Functions, Joins, Subqueries, CASE, Derived Tables, and Aggregate Functions.

• Keyword Extractor

Created a NLP project that extract keywords from the corpus of research papers and also give scores to the keywords for a document. Used NLTK for data preprocessing, Tfidf vectorizer for feature extraction, flask framework for the interface.

• EDA

Conducted Exploratory Data Analysis on a dataset of 150 students, their grades, exam marks using the Pandas and NumPy libraries, and created their grade book. Used Power BI for creating dashboards for visualization.

TECHNICAL SKILLS

- Python
- DBMS, SQL
- Statistical Techniques
- Web Frameworks like Flask, Django
- Machine Learning
- NumPy, Pandas, Matplotlib for Data Analysis
- NLP
- Business Intelligence

ACHIEVEMENTS

- Represented NIELIT Ropar at the Inter College Debate Competition hosted by Punjabi University Patiala.
- Took part as a member of the "Microcosm" team in the event "Catalyzing Concepts" during the Tech Fest Advitiya'25 at IIT Ropar.