

Karandeep Singh

Mohali,Punjab | 9872077144 | [LinkedIn](#) | [Github](#) | [Gmail](#)



EDUCATION

Chandigarh Engineering College Landran,Mohali

Bachelor in Information Technology (BTech)

Aug 2021 - June 2025

- Cumulative GPA : 7.7/10
- Relevant Coursework : Machine Learning, Data Science, Statistics, OOPS, DSA, Software Engineering, Probability and Discrete Mathematics.

INTERNSHIP & TRAINING

Chandigarh Engineering College

Landran,Mohali

Python Training (ICS Group)

July 2023

- Employed Python for machine learning model training, leveraging libraries such as TensorFlow and PyTorch to implement deep learning architectures and optimize model performance.
- Utilized NumPy and Pandas for data preprocessing, feature engineering, and manipulation tasks, ensuring the input data is appropriately structured for effective model training.

Plasmid Innovation

Bengaluru,Karnataka

Data Science Remote Internship

Feb 2024 - Mar 2024

- Mastered foundational data science concepts like statistical hypothesis testing, feature scaling, and dimensionality reduction in the initial month, establishing a strong theoretical framework for subsequent project work.
- Implemented advanced machine learning algorithms, including ensemble methods like Random Forests and Gradient Boosting, during the second month's projects, demonstrating expertise in model selection and optimization for diverse data sets.

SKILLS & INTERESTS

- **Programming Languages:** Python, R, C, C++, JavaScript, HTML, CSS , SQL, SAS.
- **Big Data & Machine Learning:** Spark, Hadoop, MongoDB, Python (eg. scikit-learn, numpy, pandas, matplotlib,seaborn).
- **Data Science & Miscellaneous Technologies:** A/B testing, ETL, Data science pipeline (cleansing, wrangling, visualization, modeling, interpretation), Statistics, Time series, Experimental design, Hypothesis testing, OOP, OOD, APIs, Excel, Git,Tableau, PowerBI,Jupyter Notebooks , Flask , Plotly , Google Sheets ,Django.

PROJECTS

Comprehensive Analysis of COVID-19 Trends Using SQL:

- Designing and optimizing SQL database schemas to ensure data integrity and efficiency.
- Creating and managing SQL queries for comprehensive data retrieval and transformation.
- Performing data cleaning and normalization to enhance accuracy and reliability of analysis.
- Implementing data visualization tools to present findings in a clear and actionable format.
- Conducting trend analysis to support decision-making processes and public health strategies.

End-to-End Data Analysis and Automation Using Excel Power Query:

- Designing and implementing Power Query workflows to connect and consolidate data from diverse sources, including spreadsheets, databases, and online sources.
- Applying data transformation techniques such as filtering, merging, and aggregating to prepare datasets for analysis.
- Automating data refreshes and transformations to ensure up-to-date and accurate reporting.
- Creating interactive dashboards and reports in Excel to visualize insights and trends, leveraging features such as PivotTables, PivotCharts, and slicers.
- Conducting comprehensive analysis to identify key metrics and trends, providing actionable insights for decision-making..