

# Akanksha

Data Analyst | Machine Learning Enthusiast  
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## LINKS

Portfolio: [akanksha-th.portfolio](#)

LinkedIn: [akanksha.linkedin](#)

Github: [akanksha.github](#)

## SKILLS

### PROGRAMMING

Python • SQL

### LIBRARIES & TOOLS

Pandas • NumPy • Scikit-Learn  
SciPy • Seaborn • Matplotlib  
PyTorch • TensorFlow • Keras  
Colab • Jupyter • Power BI • Docker •  
Streamlit • Gradio

## EDUCATION

### PUNJAB ENGINEERING COLLEGE, CHANDIGARH

B.TECH IN AEROSPACE ENGINEERING  
CGPA - 8.11/10 | Dec 2021 - Present

### D.A.V. PUBLIC SCHOOL MOHAL, KULLU

SENIOR SECONDARY EDUCATION  
(12TH)  
Percentage - 95.6% | 2020 - 2021

## COURSEWORK and CERTIFICATION

Linear Algebra and Differential  
Calculus  
Artificial Intelligence and Machine  
Learning  
SQL for Data Analysis

## EXTRA-CURRICULAR

- Executive Member, Music Club, PEC.
- Mentored more than 50 juniors within the Music Club.
- Been active in more than 25 events of the Music Club and college.

## EXPERIENCE

### SPACECRAFT 6D POSE ESTIMATION

RESEARCH TRAINEE CSIR-CSIO CHANDIGARH | Jan 2024 - July 2024

- Researched and evaluated over 10+ advanced models, algorithms, and architectures per pipeline segment, ensuring optimal accuracy and efficiency for spacecraft pose estimation.
- Led a solo research initiative to develop a robust, high-performance pipeline, and am currently transforming this work into a scholarly research paper.

## PROJECTS

### CookMatch: Recipe Recommendation System

NLP, Python, Web-scraping (BeautifulSoup) | May 2024 - July 2024

- Scraped 697 complete recipes from a single website, ensuring a clean dataset with no null values.
- Engineered an advanced recipe recommendation system using NLP techniques and collaborative filtering.

### SQL Case-Study on Shark-Tank India

Descriptive Data Analysis (EDA) | July 2024

- Cleaned, preprocessed, and analyzed a comprehensive dataset using SQL, improving data quality by addressing missing values and inconsistencies, and uncovering key business trends and investor preferences.
- Applied descriptive statistics and data visualization techniques to deliver actionable insights, driving strategic investment decisions with clear, data-driven recommendations.

### Credit Risk Modelling

EDA, Feature Engineering, Machine Learning, Python | July 2024

- Conducted comprehensive exploratory data analysis (EDA) and engineered features, resulting in a 5% improvement in model accuracy.
- Developed and validated predictive models using machine learning techniques, delivering actionable insights that streamlined credit decision-making processes and mitigated risk.

### Flight Price Prediction

Python, EDA, feature Engineering, ML | July 2024

- Executed EDA and feature engineering, boosting model predictive accuracy by 30% through optimized feature selection and preprocessing techniques.
- Developed and validated machine learning models, delivering precise flight price forecasts and actionable insights for trend analysis and price optimization.

