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
MATRICULATION (10th)
Percentage - 96.2% | 2018 - 2019

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 Music Club events and college events.

EXPERIENCE

INTERNSHIP at CSIR-CSIO CHANDIGARH

RESEARCH TRAINEE | 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 for spacecraft 6D Pose Estimation, and am currently transforming this work into a scholarly research paper.

PROJECTS

CookMatch: Recipe Recommendation System

NLP, Python, Web-scraping (BeautifulSoup) | June 2024 - Present

- 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 having 78 columns, 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, Machine Learning | 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.