Prakash

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EDUCATION

GURUKULA KANGRI (DEEMED TO BE UNIVERSITY)
B.TECH IN COMPUTER SCIENCE
Haridwar,Uttarakhand
Nov2022-May2026

LINKS

Github:// **prakash**
LinkedIn:// **prakash**
Naukri360:// **prakash**
Leetcode:// **Prakash**

COURSEWORK

UNDERGRADUATE

DatabaseManagementSystems(DBMS)
ComputerNetworks
Machinelearning(ML)
OperatingSystems
Artificial intelligence (AI)
CloudComputing

SKILLS

PROGRAMMING LANGUAGES

Java • Python • HTML • CSS • JavaScript

FRAMEWORKS/LIBRARIES

React • Pandas • Numpy • scikit-learn

DATABASESTOOLS

MySQL

DOMAINS OF INTEREST

Machine Learning • Artificial Intelligence
• Web Development

DEVELOPER TOOLS

Git • GitHUb • Docker• Linux •VSCode
• IntelliJ IDEA

PROBLEM SOLVING

Competitive Programming (LeetCode,
Codeforces,CodingNinjas)

PROJECTS

AI-POWERED COLLEGE RECOMMENDATION SYSTEM (DHUNDO APPNA COLLEGE)

- **Tools Used:** Python, Pandas, Scikit-learn, NumPy, Matplotlib, NLTK, Jupyter Notebook
- Developed an **AI-driven recommendation system** to provide personalized college suggestions by analyzing student marks and preferences.
- Built, trained, and tested a **machine learning model** using Python and TensorFlow, achieving recommendations closely aligned with the academic profiles of the students. Engineered a **full-stack application** by integrating the model with a user-friendly web interface (HTML, CSS, JS) and a MySQL database.

AI-DRIVEN CUSTOMER CHURN PREDICTION RETENTION SYSTEM FOR TELECOM

- **Tools Used :** Python ,Pandas, NumPy, Excel , Power BI, Matplotlib, Seaborn,Scikit-learn, XGBoost , Flask
- Developed a machine learning–based system to predict customer churn and identify at-risk customers.
- Applied optimization algorithms (Knapsack, Greedy) to recommend cost-effective retention offers within budget constraints.
- Designed interactive dashboards to visualize churn trends, revenue impact, and retention strategies for data-driven decision making.

AI DIET PLANNER — FULL STACK WEB APPLICATION

- **Tools Used:** FastAPI, SQLite, SQLAlchemy, React (Vite), TailwindCSS, Axios, Postman
- Designed and developed a **full-stack diet planning app** that generates personalized **7-day meal plans** based on user profile (age, height, weight, activity level, dietary preference, goal).
- Built RESTful APIs with **FastAPI** and **SQLAlchemy ORM**, using **Mifflin-St Jeor equation** for the calculation of calories and the dummy food database for nutrition values.
- Created a **chat-style interactive UI** in React with **TailwindCSS**, featuring step-by-step onboarding, quick replies, and a dynamic dashboard to visualize daily calories & macros

ACHIEVEMENT

SMART INDIA HACKATHON & AMAZON ML HACKATHON

PARTICIPANT
Jan 2024

- Collaborated with a team to explore machine learning solutions and presented practical applications in a competitive environment.
- Gained valuable insights into ML-based problem solving and teamwork.

SILVER MEDAL – STATE LEVEL VOLLEYBALL CHAMPIONSHIP

2018

- Represented **Indian public school** in State Level Volleyball Championship and achieved 2nd position.