KAPIL

B.Tech. - Computer Engineering - Data Science
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BRIEF SUMMARY

I'm Kapil Basoa, currently pursuing B.Tech in Computer Science (specializing in Data Science) and actively exploring internship opportunities in Data Science, AI, and Machine Learning.

I've worked on several hands-on projects like an AI-based Career Guidance System and a Phishing Website Detection tool using ensemble models. These experiences have allowed me to apply machine learning concepts practically and strengthen my skills in Python, Scikit-learn, and XGBoost. I am eager to apply my skills in a dynamic environment. I am highly adaptable and a fast learner. I have strong analytical thinking, proficiency in Python and ML frameworks. I want to apply AI to solve real world problems.

KEY EXPERTISE

Artificial Intelligence   Python   SQL   Machine Learning   HTML   CSS   C

EDUCATION

J.C Bose University of Science & Technology, YMCA, Faridabad   2022 - 2026
B.Tech. - Computer Engineering - Data Science | CGPA: **8.80 / 10**

DAV public school, Gurgaon   2022
12th | CBSE | Percentage: **95 / 100**

AVR public school, Gurgaon   2020
10th | CBSE | Percentage: **95.20 / 100**

PROJECTS

CareerVista   15 Jan, 2025 - 22 May, 2025
Mentor: Dr. Lalit Mohan Goyal | **Team Size:** 1

Key Skills: Python, Scikit-learn, XGBoost, SVM, KMeans

Project Link: https://github.com/kapilbasoa/CareerVista

CareerVista — AI-Based Career Guidance System
• Engineered an AI-powered career recommendation system leveraging supervised machine learning classifiers (Decision Tree, Random Forest, XGBoost, SVM) and KMeans clustering to predict optimal career paths based on academic performance, skill assessments, and user preferences.
• Performed data preprocessing, feature selection using feature importance scores to enhance model interpretability and reduce input dimensionality.
• Conducted hyperparameter tuning via GridSearchCV to optimize classification model performance.
• Visualized model outcomes using confusion matrix, ROC AUC, and Precision-Recall curves for comprehensive evaluation.

PhishPatrol   20 Jul, 2024 - 30 Nov, 2024
Mentor: Dr. Lalit Mohan Goyal | **Team Size:** 1

Key Skills: Machine Learning   python

Project Link: https://github.com/kapilbasoa/PhishPatrol

PhishPatrol — Phishing Website Detection System
• Implemented an intelligent phishing website detection system using URL feature engineering and ensemble machine learning techniques (Voting Classifier combining Decision Tree, Random Forest, and XGBoost) achieving high detection accuracy.
• Extracted over 20 URL attributes using custom Python parsers to enhance feature richness.
• Developed ensemble classifiers to improve prediction robustness and reduce overfitting.
• Evaluated models using advanced metrics including ROC AUC, Precision-Recall Curve, and F1 Score for comprehensive performance assessment.

ASSESSMENTS / CERTIFICATIONS

What is Generative AI

Key Skills: AI Generative AI Generative AI tools

It is a self paced course provided by LinkedIn that focused on Generative AI.

Generative AI in Learning and Development

Key Skills: AI for Business Employee Learning & Development

It is a self paced course provided by LinkedIn that focused on Generative AI in Learning and Development.

GATE 2025

31 Mar, 2028

Aggregate: 33.47 / 100

Key Skills: Computer Science and Information Technology (CS)

SEMINARS / TRAININGS / WORKSHOPS

Introduction to Data Science **Institute Name:** Internshala

01 May, 2023 - 17 Jun, 2023

Key Skills: data science python statistics machine learning

The training consisted of Introduction to data Science, Python for data science, understanding the statistics for data science, predictive modeling and basics of machine learning and the final project module.

PERSONAL DETAILS

Gender: Male
Marital Status: Single
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