Sourabh Kumar

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Summary

- Computer Science graduate with hands-on experience in building predictive models using Python.
- Skilled in regression, classification, and clustering on real-world datasets.
- Built ML models like insurance premium and diabetes prediction with up to 87% accuracy.
- Proficient in Scikit-learn, Pandas, NumPy, and Matplotlib for data-driven problem solving.

Education

RJPV, Bhopal — Nov 2021-May 2025

- Bachelor of Technology in Computer Science (CGPA:7.81/10)

Technical Skills

- Languages: Python, JavaScript, HTML5, CSS3.
- ML Libraries: NumPy, Pandas, Matplotlib, Scikit-learn.
- Tools: Jupyter, VS-Code, Git.

Experience

Python & ML Training | Robotronix India — Sep 2024-Oct 2024

- Applied regression, classification, and clustering techniques on real-world datasets for predictive modeling.
- Developed insurance premium and diabetes prediction models with 85% and 87% accuracy using Linear Regression and KNN

Web Development Intern | Ypsilon IT Solutions — Aug 2023-Sep 2023

- Built responsive web pages using HTML5, CSS3, and JavaScript, enhancing user engagement and SEO.
- Streamlined deployment with Git automation, reducing code redundancy and release cycles by 20%

Projects

Movie Recommender System | https://movie-recommender-system-hval.onrender.com

- Developed a content-based movie recommender using Python, Flask, scikit-learn, and TMDb API for poster display.
- Deployed the app on Render with a responsive UI built using HTML, CSS, and Bootstrap.

Book-Recommender System | https://book-recommender-system-gak9.onrender.com

- Built a content-based book recommendation system using Python, Pandas, and scikit-learn for personalized suggestions.
- Designed a user-friendly web app with Flask and deployed it on Render with a responsive Bootstrap interface.

Linear Regression Insurance Price Predictor Model

- Built a Linear Regression model to predict insurance premiums using age, health conditions, and surgical history.
- Trained the model on a dataset of 10,000+ records to ensure accurate and reliable predictions.

KNN Diabetes Prediction

- Built a KNN model to predict the likelihood of diabetes based on health indicators.
- Processed and analyzed medical data to train the model for binary classification of diabetes risk.

Certifications

- Python & ML Training (Robotronix India).
- DBMS using MySQL(NPTEL).
- Data Structures and Algorithms using Java (NPTEL).
- MERN Stack Certification (BECIL).