

ROSHAN KUMAR

MACHINE LEARNING ENGINEER

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SUMMARY

Aspiring Machine Learning Engineer with strong hands-on experience gained through academic and personal projects. Developed an AI-powered resume analyzer, a hand sign recognition system, and an image captioning model using Python, machine learning, and deep learning techniques. Currently pursuing a B.Sc. in Computer Science and Data Analytics at IIT Patna. Proficient in model development, data preprocessing, and turning complex data into actionable insights.

Reliable and organized, with a proven ability to handle multiple priorities and contribute positively to team objectives. Eager to take on challenging tasks and continuously grow in the machine learning domain.

SKILLS

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|----------|--|---------------------------------------|----------------------------------|
| • Python | • scikit-learn | • Joblib / Pickle | • Git / GitHub (version control) |
| • SQL | • OpenCV | • Flask / FastAPI | • RNN |
| • HTML | • Convolutional Neural Networks (CNNs) | • Streamlit (for quick ML dashboards) | • Transformers |
| • CSS | • TensorFlow / Keras | • Docker (for packaging apps) | |

PROJECT

AI-Powered Resume Analyzer

- Developed a Flask-based web application that classifies resumes into job categories using KNN and TF-IDF, extracts skills and education using NLP, and recommends improvements using Gemini-powered suggestions.
- Integrated user authentication, job matching via external API, and a chatbot assistant; enhanced the UI with Bootstrap and added analytics for real-time insights.

Music Recommender System

- Designed and implemented a music recommendation engine using collaborative filtering and content-based filtering to personalize song suggestions based on user listening history and song features.
- Utilized Python, Pandas, and Scikit-learn for data preprocessing and model development; evaluated system performance using metrics like precision, recall, and F1-score.

EDUCATION

B.Sc.Indian Institute of Technology (IIT) PatnaComputer Science and Data Analytics

Amhara, Bihta, 35 Km From Patna Expected in July 2027

- Coursework: Machine Learning, Deep Learning, Data Structures, Python Programming, Statistics, Mathematics for Computing.
- Actively engaged in hands-on AI projects, including resume analysis, sign recognition, music recommender system and image captioning.
- 8.74 GPA/CGPA
- Smart Resume Analyzer, **Machine Learning Engineer – AI-Powered Resume Analyzer**
- Developed a Flask web app that analyzes resumes using NLP and ML techniques (TF-IDF, KNN, Sentence Transformers) to classify job categories, score match with job descriptions, and provide Gemini-powered improvement suggestions. - Capstone Project

ADDITIONAL INFORMATION

Languages: English, Hindi.

Certificate of Participation : Coding Ninjas , IIT Patna & ISRO

Awards/Activities: Commute Competition Host Award(Kaggle)

Badge Holder : Researcher, Competitor, Python Coder Earned multiple skill-based badges through active participation in Kaggle's learning and competition ecosystem.