

Ikjot Kour

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Personal Profile

B.Tech undergraduate at NIT Srinagar with a strong academic record (CGPA: 9.08). Proficient in full-stack and AI-driven software development with a focus on intelligent systems, automation, and data analysis. Experienced in React.js, Express.js, and Python-based machine learning workflows. Skilled in problem-solving, data structures, and algorithms. Passionate about applying AI/ML and deep learning to real-world applications, and learning by building innovative systems.

Education

National Institute of Technology, Srinagar

2023 – Present

Bachelor of Technology (B.Tech), Computer Science and Engineering

Current CGPA: 9.08

Relevant Coursework: Data Structures and Algorithms, Machine Learning, Artificial Intelligence, Operating Systems, Computer Networks, Databases, Computer Architecture, Data Communications

Skills

Programming Languages & Databases: Python, Java, JavaScript, TypeScript, C, MongoDB, MySQL, SQLite

AI/ML Tools & Libraries: NumPy, Pandas, Scikit-learn, Matplotlib, TensorFlow (Basics)

Frameworks & Libraries: React.js, Node.js, Express.js, Django, Bootstrap, Tailwind CSS

Tools & Platforms: Git/GitHub, Linux (Ubuntu), Jupyter Notebook, VS Code, PyCharm, Docker, LaTeX

Other: Data Structures & Algorithms, Data Preprocessing, Model Evaluation, Web Deployment

Experience

Zetawa-Dark – SDE Intern (Remote)

Jul 2025 – Present

- Developed the company's official website from scratch using React.js, Express.js, and MongoDB.
- Designed modular APIs to support analytics dashboards and automated data collection.
- Conducted training sessions on modern web and AI-assisted development workflows for junior developers.

Curve Electric – Web Development Intern (Remote)

May 2025 – Jul 2025

- Enhanced website performance by optimizing frontend code and reducing load time by 30%.
- Integrated SEO and analytics-based data tracking to improve customer engagement.
- Supported product data visualization for marketing using Python-based scripts.

Rang-e-Chinar '25 – Web Development Team Lead (NIT Srinagar)

2025

- Led a team to build the cultural fest website, managing 10,000+ user registrations.
 - Integrated payment gateways and automated confirmation workflows using backend APIs.
 - Designed a dashboard for analytics-based participation insights and event scheduling.
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Projects

1. AI-Powered Student Performance Predictor

Tech Stack: Python, Scikit-learn, Pandas, Flask

- Built a machine learning model to predict student performance based on academic and behavioral data.
- Used data preprocessing, feature selection, and regression analysis to achieve 87% accuracy.
- Deployed the trained model via Flask API with an interactive web dashboard.

2. ERP Module for PhD Scholars

Tech Stack: Django, React.js, REST APIs

- Developed a full-stack ERP system for automating academic approvals and progress tracking.
- Implemented role-based access control and server-side data validation.
- Integrated REST APIs for data analytics and report generation.

3. News Classification App

Tech Stack: Python, Scikit-learn, NLP

- Built a text classification model to label news articles into categories using TF-IDF and Naive Bayes.
- Designed preprocessing pipeline for text cleaning and vectorization.
- Visualized category-wise accuracy and confusion matrix using Matplotlib.

4. TextUtils Website

Tech Stack: React.js, Bootstrap

- Created a text analytics app offering transformations, readability scoring, and sentiment estimation.
- Added dark/light modes, interactive analytics graphs, and responsive design.

5. Student Management System

Tech Stack: Java, MySQL

- Developed a desktop-based student management system for handling records, attendance, and performance.
- Implemented CRUD operations with MySQL backend and Java Swing interface.
- Added search and report generation features for efficient academic tracking.

6. Car Pricing using Linear Regression

Tech Stack: Python, Scikit-learn, Pandas, Matplotlib

- Built a regression model to predict car prices based on engine size, mileage, and brand data.

- Cleaned and visualized dataset to identify key influencing features.
 - Achieved strong model performance with optimized feature scaling and evaluation metrics.
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Achievements

- Winner – Web Development Competition (Tech-Fusion '24)
- Winner – Semicolon Orientation '23
- 3rd Position – Coding Round (Women in Tech)
- Selected for IEEE AI Workshop – 2024