

DEVANSH SINGHAL

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Education

National Institute of Technology, Kurukshetra

2023–2027

B.Tech in AI-ML

CGPA: 9.15 (Up to 3rd semester)

JEE MAINS: 99.29%

Class X: 92.5% Class XII: 92%

Coursework / Skills

- Computer Science Fundamentals
- AI and Problem Solving
- Data Structures and Algorithms
- Probability and Statistics
- Data Science and Analytics
- Machine Learning Algorithms
- Database Management System
- Deep Learning

Projects

EDA on Global Poverty and Income Inequality—Python, Pandas, Matplotlib, Seaborn

Feb 2025

- Collected and processed global economic datasets, tokenizing and structuring financial data for analysis.
- Designed a multi-stage data pipeline with Pandas, enabling data cleaning, transformation, and aggregation.
- Created interactive visualizations using Matplotlib and Seaborn, including heatmaps, histograms, and choropleth maps.
- Analyzed trends in income distribution, social inequalities, and policy effectiveness with statistical models.
- Developed a predictive analytics system to assess poverty trends using regression models.

Flipkart Price Tracker—Python, BeautifulSoup, Requests, Matplotlib, Tkinter

Dec 2024

- Built an automated price monitoring tool to scrape product data from Flipkart, tracking real-time price fluctuations.
- Implemented a dynamic alert system using SMTP, notifying users when product prices drop below a set threshold.
- Engineered a Tkinter-based GUI to allow users to add, remove, and track multiple products effortlessly.
- Designed a price trend dashboard with Matplotlib, visualizing price movements over time.
- Optimized web scraping logic to reduce redundant requests and improve efficiency by 30.

Technical Skills

Languages: Python, C++, C, JavaScript, TypeScript
Libraries: PyTorch, Pandas, Matplotlib, Seaborn, NumPy, Plotly, Scikit-learn
Developer Tools: VS Code, Docker, Git
Databases: MongoDB, MySQL, Redis
Technologies: ReactJS, NextJS, NodeJS, ExpressJS

Soft Skills

- Strong analytical thinking, problem-solving, and logical reasoning.
- Effective communication in presenting complex technical insights.
- Teamwork and adaptability in collaborative, fast-paced environments.
- Excellent time management in balancing multiple projects.

Certifications

Machine Learning Specialization

- Supervised Learning - Linear Regression, Logistic Regression
- Advanced Learning - Neural Networks, Decision Trees, PCA
- Unsupervised Learning - Clustering, Recommender Systems, Reinforcement Learning