# Devansh Singhal

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## EDUCATION

**National Institute of Technology, Kurukshetra** **2023 – 2027**
*Bachelor of Technology in Artificial Intelligence and Machine Learning - CGPA:* ***9.15*** *Kurukshetra, India*
**JEE MAINS: 99.29 percentile**
**CLASS X: 92.5%** **CLASS XII: 92%**

## COURSEWORK / SKILLS

- Computer Science Fundamentals
- Data Structures & Algorithms
- AI & Problem Solving
- Database Management Systems
- Machine Learning Algorithms
- Deep Learning
- Full Stack Web Development
- Software Engineering Practices

## PROJECTS

**Food Delivery App** | React.js, TypeScript, Node.js, MongoDB, Stripe **March 2025**
- Developed a full-stack food delivery application using **React.js and TypeScript** for the frontend with a responsive UI built on Tailwind CSS, and **Node.js/Express** for the backend API architecture.
- Implemented comprehensive user authentication system using **JWT tokens**, dynamic menu management with **MongoDB**, and secure payment processing with **Stripe API integration**.
- Built order tracking functionality, user profile management, and an admin dashboard that provides real-time analytics on sales, popular menu items, and delivery metrics to optimize business operations.
- Utilized **Context API** for state management and implemented modern React patterns like custom hooks for code reusability and maintainability.

**EDA on Global Poverty & Income Inequality** | Python, Pandas, Matplotlib, Seaborn **February 2025**
- Analyzed global poverty rates, income distribution, and inequality indices across different regions and time periods using advanced data analysis techniques with **Pandas** and **NumPy**.
- Created comprehensive interactive data visualizations using **choropleth maps**, correlation matrices, and **heatmaps** to identify economic disparity patterns and temporal trends in global wealth distribution.
- Implemented statistical methods to study time-series trends, poverty-income correlations, and wealth gaps between developed and developing nations to identify economic indicators that predict poverty reduction.
- Built **interactive dashboards** with Plotly and Streamlit allowing users to explore economic data dynamically, forecast poverty trends, and generate custom reports based on selected parameters.

**Flipkart Price Tracker** | Python, BeautifulSoup, Requests, Matplotlib, Tkinter **December 2024**
- Developed a web scraping application that monitors and extracts real-time product prices from Flipkart using **BeautifulSoup** and **Requests**, handling various product categories and page structures.
- Implemented an automated tracking system with configurable scheduled checks every 30 minutes, persisting historical price data in CSV files for detailed price trend analysis and optimal purchase timing recommendations.
- Designed an intuitive **GUI interface** with Tkinter allowing users to track multiple products simultaneously, configure custom price drop thresholds, and visualize price history with interactive charts.
- Integrated a smart notification system using **SMTP** that sends personalized email alerts with dynamically generated price history graphs and purchase timing recommendations based on historical price patterns.

**Fuzzy-based Resume Ranking System** | Python, NLP, Fuzzy Logic, NLTK **February 2025**
- Developed an intelligent resume ranking system using **fuzzy logic** principles and machine learning algorithms to automate candidate evaluation for HR departments, reducing screening time by approximately 70%.
- Implemented **Natural Language Processing** techniques with NLTK and spaCy to extract key information from resumes including skills, experience, and education, then match with job descriptions using semantic similarity measures.
- Created a sophisticated **fuzzy inference system** with multiple evaluation criteria that generates candidate suitability scores based on weighted parameters that can be customized according to specific job requirements.
- Built a user-friendly interface allowing recruiters to adjust ranking parameters in real-time, generate shortlists with confidence scores, and export results in various formats for integration with existing HR systems.

## TECHNICAL SKILLS

**Languages:** Python, C++, C, JavaScript, TypeScript
**Libraries:** PyTorch, Pandas, Matplotlib, Seaborn, NumPy, Plotly, Scikit-learn
**Frontend:** ReactJS, NextJS, HTML/CSS, Responsive Design
**Backend:** NodeJS, ExpressJS, RESTful APIs, Django
**Databases:** MongoDB, MySQL, Redis
**Developer Tools:** VS Code, Docker, Git, Version Control
**Soft Skills:** Effective Communication, Teamwork & Collaboration, Critical Thinking, Time Management