

# PANKAJ

Software Engineer | Full Stack Developer | AI & ML Enthusiast

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## SUMMARY

Passionate about AI, Machine Learning, and Full Stack Development, with hands-on experience in React, Node.js, Java, and Python. Proven ability to develop and deploy scalable applications, leveraging data-driven insights for performance optimization. Adept at collaborating in teams, problem-solving, and delivering impactful projects.

## EDUCATION

### Chandigarh University

Bachelor of Engineering – Computer Science and Engineering; CGPA: 7.84

Punjab, India

Aug 2022 - July 2026

### DAV Public School (CBSE)

12<sup>th</sup>: 86.4 % | 10<sup>th</sup>: 82.8 %

Haryana, India

2019 - 2021

## SKILLS SUMMARY

- **Programming Languages:** C, C++, Python, SQL, JAVA
- **Frameworks & Libraries:** Pandas, NumPy, Scikit-Learn, Matplotlib, React, NodeJS, NLP, Web Scrapping
- **Databases:** MySQL, MongoDB
- **Tools & Platforms:** Cisco Packet Tracer, PyCharm, Visual Studio Code, IntelliJ IDEA
- **Soft Skills:** Team Leadership, Analytical Skill, Effective communication

## EXPERIENCE

### J.P. Morgan Software Engineering Virtual Experience on Forage

June 2024

- Engineered and resolved 5+ critical repository issues, improving web application efficiency by 30%.
- Optimized the development environment, reducing debugging time by 40%.
- Integrated JPMorgan Chase's Perspective library, enhancing real-time data visualization for faster trading insights.

## PROJECTS

### AI Powered Student Performance Web Application | [LINK](#)

December 24 - January 2025

- Developed and deployed an AI-powered student performance prediction web application using React, Node.js, MongoDB, and Python.
- Designed an interactive UI for data input and results visualization, ensuring a seamless user experience.
- Trained machine learning models with Pandas, Scikit-learn, and Matplotlib for accurate data analysis and predictions.
- Successfully deployed the application on a Wi-Fi network for real-time access and usage.

### Car Rental Management System

September 24 - October 2024

- Developed a Car Rental Management System using Java, incorporating JavaFX for the GUI and JDBC for smooth database integration.
- Developed & automated car booking, reservation, and rental workflows, enhancing process efficiency by 40%.
- Ensured robust database connectivity and smooth data handling for real-time system operations.

## CERTIFICATES

### Internet of Things: Design Concepts and Use Cases (NITTR Chandigarh) | [LINK](#)

Jan 2025

- Mastered IoT architecture, protocols, and application development.
- Gained hands-on experience with IoT systems, sensor integration, and data analysis through practical assignments and evaluations.

### Cloud Computing (IIT Kharagpur) | [LINK](#)

May 2024

- Gaining in-depth knowledge of cloud architecture, services, and deployment models.
- Acquired practical skills in cloud resource management, virtualization, and distributed computing through rigorous coursework and assessments.

### AI Workflow: Machine Learning, Visual Recognition and NLP (IBM) | [LINK](#)

June 2024

- Learned Machine Learning, Visual Recognition, and NLP from IBM, focusing on AI model development and deployment.
- Gained expertise in building ML models, implementing visual recognition systems, and applying NLP techniques to real-world problems.

## ACHIEVEMENTS

- Achieved AIR 23 in Global Computer Olympiad, demonstrating exceptional algorithmic problem-solving skills **2017**
- Secured qualification in the National Karate Championship, showcasing discipline, resilience, and competitiveness **2018**
- Earned ELITE + Silver Certification in NPTEL, showcasing expertise in Cloud Computing **2024**