Ashneet Jha

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Summary

B.Tech CSE student with experience in MERN stack development, applied Machine Learning research, and Unity development. Skilled in building production-ready web applications and implementing Python-based ML workflows across research and enterprise environments. Proficient in React.js, Python, and C#, with a strong focus on structured software engineering and scalable systems.

Skills

Machine Learning & Data	Python (NumPy, Pandas), Computer Vision, Data Preprocessing, CNNs, Model Evaluation, Jupyter Notebook, FastAPI, OCR Libraries.
Software & Web Development	MERN Stack, HTML, Tailwind CSS, SQL, Git/GitHub, C++, Java, OOP, DBMS, Operating Systems, Computer Networks.
Game Development & IoT	Unity Engine, C#, Embedded Systems (Arduino), Sensor Integration, 2D/3D Gameplay Scripting, Level Design.

Education

2023 – 2027	B.Tech in CSE at **SRM Institute of Science and Technology, Kattankulathur, Chennai**
2021 – 2023	Class XII (CBSE) at **Bal Bhavan International School, New Delhi**
2010 – 2021	Class X (CBSE) at **Basava International School, New Delhi**

Experience

Research Intern — Indian Institute of Technology Ropar (IIT Ropar)　　　Dec 2025 – Present

Developing an AI-based document analysis pipeline using vision-language models and RAG concepts to compare Digital India reports. Implementing agent-based workflows to extract structured insights, while conducting rigorous experimentation and evaluation of reasoning mechanisms.

Research Intern — National Institute of Technology Rourkela (NIT Rourkela)　　Dec 2025 – Present

Implementing Machine Learning workflows with a focus on Convolutional Neural Networks (CNNs), including structured model training, evaluation, and experimentation pipelines.

Information Systems Intern — Indian Oil Corporation Limited (IOCL)　　　Dec 2025 – Jan 2026

Engineered internal automation and document digitization workflows for enterprise systems. Implemented validation logic and technical documentation, enhancing process reliability and compliance.

Open Source Contributor — GirlScript Summer of Code (GSSoC)　　　Sept 2025 – Present

Optimizing algorithms and resolving critical bugs across multiple open-source repositories. Implementing feature enhancements and adhering to strict code quality standards and CI/CD pipelines.

Game Development Intern — Revolution Games Pvt. Ltd.　　　Jun 2025 – Sept 2025

Engineered a real-time interactive system, optimizing state management and event-driven logic for high stability. Implemented modular C# components to resolve complex state transitions and edge cases. Optimized update loops, reducing performance bottlenecks and improving application stability by ∼30%.

Web Development Intern — Prodigy Infotech　　　Feb 2025 – Mar 2025

Developed responsive React.js applications with API integration, improving UI performance by ∼40%. Refactored frontend components to enhance code reusability and maintainability.

Software Development Engineer Intern — Sukh Sagar Industries　　　Jan 2025 – Mar 2025

Developed automation scripts and internal tools, optimizing business logic and workflows. Implemented robust data validation and error handling mechanisms. Enhanced existing scripts to reduce manual processing effort by ∼45% and improve operational reliability.

RESPONSIBILITIES

Head of Web Development — Coding Ninjas 10X Club SRM   Jun 2025 – Present
Led full-stack projects, mentored juniors, and improved delivery efficiency by ∼45%.

Technical Head — IEEE SRMIST SSIT SBC   Aug 2025 – Present
Led a 40+ member team, enforcing technical review processes that improved project execution effectiveness by ∼70%. Successfully led and conducted the technical aspects of Hackceler8, a national-level hackathon.

Class Representative — SRMIST   July 2024 – Present
Primary liaison between faculty and 60 students, facilitating academic coordination and resolving scheduling conflicts to ensure operational efficiency.

PROJECTS

FinVision AI — Document Intelligence Pipeline
Built a production-deployed document intelligence pipeline using ML-based OCR and confidence-aware structural inference to clean, validate, and extract financial data, significantly reducing manual verification time by 64%. Link: huggingface.co/spaces/ashneetjha/FinVision-AI

AI-Based Object Identifier (YOLO & Computer Vision)
Developed a real-time object detection web application capable of identifying multiple object classes with high confidence scores. Integrated pre-trained YOLO models with a responsive frontend to deliver low-latency visual inference. Link: ai-basesd-object-identifier.vercel.app

Bio Pellet — Multilingual AI Farmer Assistant
Built an AI-powered multilingual agricultural assistant providing bio-pellet insights using ML-based workflows. Implemented a FastAPI backend and Streamlit dashboard for real-time interaction and data visualization. Link: ecoshieldwebsite.netlify.app

Smart IoT Solutions Suite
Developed Arduino based space optimization system for smart parking, alongside a biometric fingerprint lock for access control and a smart dustbin for automated waste management.

CryptoFolio — MERN & MySQL Application
Created a cryptocurrency portfolio tracker with secure database operations and external financial API integration for real-time price updates.

Digital Shop Management System (Python & MySQL)
Engineered an inventory and billing automation system featuring stock tracking, reporting, modular workflows, and structured MySQL-backed data storage.

Mathstronaut — Unity Educational Game
Designed an educational Unity game featuring progressive math challenges, interactive scoring systems, and level-based learning logic.

CERTIFICATIONS

Oracle Cloud Infrastructure 2025	Foundations Associate
NPTEL	Programming in Java, Introduction to Machine Learning
Scaler, Udemy & Cisco	DBMS, C Programming, Networking Basics

ACHIEVEMENTS

- Student's Annual Outstanding Achievement Award (2023–2024) presented by the C.Tech Department (CSE), SRMIST for exceptional academic performance and technical contributions.
- 2nd Prize in Intra-College Competition conducted by Civil & Mechanical Departments, SRMIST.
- 3rd Prize in Engineering Graphics & Design Competition conducted by Mechanical Department.
- School Rank 1: Secured 98.2% overall with a perfect 100 in Science (Class X).
- Olympiad Medalist: Secured 20+ medals across Mathematics, Science, and Computer Science Olympiads.