

OJASS BHATT

Software Developer | Java, Python, SQL, Full-Stack | B.Tech CSE (Data Science), Class of 2028

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EDUCATION

Pranveer Singh Institute of Technology (PSIT), AKTU

Kanpur, Uttar Pradesh, India

B.Tech in Computer Science & Engineering (Data Science); CGPA: 8.7; No active backlogs

Expected 2028

- Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Data Analytics and Visualization, Machine Learning

Mercy Memorial School

Class XII: 89%; Class X: 94%

TECHNICAL SKILLS

Programming Languages: Java, SQL, Python, C++, JavaScript, TypeScript, HTML

Frameworks & Libraries: Next.js, React, Node.js, FastAPI, Tailwind CSS, Pandas, NumPy, scikit-learn, XGBoost, YOLOv8

Databases: PostgreSQL, Supabase, SQL, Database Design (ERD, Normalization), Row-Level Security

Tools & Platforms: Git, GitHub, Postman (API testing), Vercel (deployment), REST APIs, OAuth 2.0, UML, Gemini API

Concepts: Data Structures and Algorithms, Object-Oriented Programming (OOP), Design Patterns, Problem Solving, Software Development, DBMS, Technical Documentation, Data Analysis, Machine Learning, Computer Vision

EXPERIENCE

Raman Research

Nov 2025 – Jun 2026

AI/ML Intern

- Analyzed electronic-kit product and sales datasets with Python, Pandas and NumPy to identify purchasing trends and customer preferences
- Explored machine learning approaches for product recommendation and demand forecasting to support inventory planning and the e-commerce shopping experience

PROJECTS

Shortlister | Next.js, TypeScript, Supabase (PostgreSQL), Gemini API, Vercel

[Live Demo](#) | [GitHub](#)

- Developed and shipped a multi-role, full-stack AI candidate-shortlisting application with a 4-stage automated evaluation pipeline integrating the Gemini API
- Implemented Google OAuth 2.0 authentication and a bias/diversity analytics dashboard for reviewing shortlisting outcomes
- Delivered reliable transactional email on a custom domain by integrating Brevo and resolving DMARC deliverability failures
- Debugged and fixed a Supabase Row-Level-Security scoping bug, a UI stacking-context issue (React Portals), and Next.js 15 async route-param breaking changes to keep the production deployment stable

NEXORA AI | YOLOv8n, ByteTrack, XGBoost, SHAP, FastAPI, React, PostgreSQL

[GitHub](#)

- Led a 5-person team to build a real-time crowd-safety computer vision system, owning the machine learning layer end-to-end: YOLOv8n object detection and ByteTrack multi-object tracking feeding an XGBoost risk classifier
- Added SHAP explainability so risk predictions are auditable feature-by-feature, and integrated the model with teammates' React, FastAPI and PostgreSQL stack
- Presented the system for university course assessment (BCS-554) and refined it across multiple faculty review cycles

Satellite Pass Predictor | Python, FastAPI, Skyfield, scikit-learn, Open-Meteo API

[GitHub](#)

- Built a FastAPI backend that predicts ISS passes from orbital-mechanics data using the Skyfield library
- Integrated live weather data from the Open-Meteo API and validated the predicted passes against Heavens-Above.com

CarAnalyser | Python, scikit-learn, React, Framer Motion

[Live Demo](#) | [GitHub](#)

- Trained a regression model for car price and affordability prediction on a real-world Kaggle dataset using scikit-learn
- Shipped an interactive React frontend with Framer Motion animations, deployed on Vercel

CERTIFICATIONS & SIMULATIONS

- Walmart USA (Forage), Advanced Software Engineering Job Simulation: implemented a max-heap data structure in Java, designed a UML Bridge-pattern class diagram and a normalized ERD, and wrote a Python database-population script
- Oracle Certified Foundations Associate; Infosys Springboard: Python and HTML Certifications
- IBM / Coursera: Agentic AI (LangGraph, CrewAI, AutoGen, BeeAI)

HACKATHONS & COMPETITIONS

- Smart India Hackathon 2026 (Team Natraj): participant; satellite imagery retrieval and change analysis problem statement
- Amazon ML Challenge 2026: participant; Business Entity Resolution (record matching across three sources)
- TCS Ideaflow Hackathon: participant; worked on MyLanguage Story Tutor for regional-language learning material

LEADERSHIP

Secretary, Vyomnauts Club

PSIT, Kanpur

Aerospace & Space Interest Club

- Organized and carried out multiple college-level events during the college annual fest
- Lead aerospace and space-technology initiatives for the club's members