SEHAJ KAUR

Mohali, Punjab

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Portfolio: sehajkaur-portfolio.netlify.app

ABOUT ME

Third-year B.Tech Computer Science Engineering student at Amity University Punjab with strong foundations in programming, data structures, and core computer science concepts. Experienced in MERN stack development, artificial intelligence, and machine learning, with hands-on expertise in building scalable web applications. University-level sports champion and ideation competition winner, demonstrating leadership, discipline, and innovation-driven problem solving.

EDUCATION

AMITY UNIVERSITY MOHALI, PUNJAB   CGPA: **8.14**
Bachelor of Technology (B.Tech), Computer Science Engineering   SGPA (Semester 5): **9.58**

SKILLS

- Programming Languages: C, C++, Python, JavaScript
- Web Development: HTML5, CSS3, React.js, Node.js, Express.js, Responsive Design
- Databases: MongoDB, MySQL (SQL)
- AI / Machine Learning: Artificial Intelligence, Machine Learning, Deep Learning, NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow
- Tools & Technologies: Git, GitHub, VS Code, Postman
- Core Computer Science: Data Structures & Algorithms, Object-Oriented Programming.

EXPERIENCE

AI/ML Intern
Centre for Development of Advanced Computing (C-DAC), Mohali - June 2025 – August 2025
- Worked on real-time AI/ML projects involving data preprocessing, feature engineering, and model training.
- Implemented ML algorithms using Python, Pandas, NumPy, Matplotlib, scikit-learn, and TensorFlow.

MERN Stack Developer
ThinkNEXT Technologies Private Limited - July 2025 – December 2025
- Implemented end-to-end MERN stack applications, handling frontend, backend, and database integration.
- Built scalable RESTful APIs and dynamic user interfaces.

Virtual Intern – AI / Machine Learning
Infosys Springboard - October 2025- December 2025
- Completed a structured virtual internship in AI, Machine Learning, and Data Science.
- Worked on project involving data preprocessing, feature engineering, and ML model development.

PROJECTS

1. **JobShield AI (NLP Fraud Detection):** Built an NLP-based system using **TF-IDF Vectorization** and Logistic Regression to identify fraudulent job postings with high precision.
2. **DeepVision Crowd Monitor:** Developed a real-time computer vision system using **OpenCV** and Deep Learning to monitor crowd density and identify high-risk zones.
3. **Water Quality Predictor:** Created a machine learning pipeline to analyse and predict water potability using real-world environmental datasets.
4. **Resume-Job Fit Analyzer:** Built an AI tool using NLP to match resumes with job descriptions for recruitment efficiency.

ACHIEVEMENTS

Academic & Innovation: Rank 6, Orange Global Science Olympiad (School) • 1st Position, NMIMS University Ideation Competition • 1st Position, Fashion Show (Amity University Punjab) • Karate – Yellow Belt (10th Kyu).
Sports: 1st Position (2023-2025), Basketball & Cricket (SANGATHAN) • 1st Position, Inter-Institution Sports Meet (Plaksha University - Eklavya 2025) • 3rd Position, Inter-Institution Sports Meet (IIT Ropar - Aarohan 2025) • 3rd Position, 100m & 400m Races (SANGATHAN 2023).

EXTRA-CURRICULAR & CREATIVE INTERESTS

- Photography and Visual Composition
- Art & Creative Design
- Nail Art & Pattern Design
- Competitive Sports Leadership