Amandeep Singh

Electronics & Communication Engineering
Chandigarh College of Engineering & Technology

Phone: +91-9530688253

E-mail: singhaman0967@gmail.com
LinkedIn: Aman

Education	Institute	Year	CPI/%
Bachelor Of Engineering: (B.E Electronics and Communication)	Chandigarh College of Engineering and Technology	2022-25	7.0
Diploma : (Computer Science & Engineering)	Chandigarh College of Engineering and Technology	2019-22	77%
Matriculation:	Saupin's School Sec 32, Chandigarh	2016-17	8.8

PROFESSIONAL SUMMARY

With a background in Computer Science and a B.E. in Electronics and Communication, developed experience in both hardware and software fields. Worked on Python-based data analysis, AI based automation solutions, and practical IoT projects. Additionally, skilled in research, data visualization, SEO and applied ML Concepts to support decision-making processes. Passionate about leveraging technical expertise and leadership skills to contribute to impactful projects.

INTERNSHIPS & IT

- **NIELIT & IIT Ropar,** *6 Months Industrial Training (AIML)* *(Jan' 25- Jun'25)*
  - Worked on **machine learning pipelines** using Python, with real-time data preprocessing and model evaluation.
  - Real-world use cases using OpenCV for **image processing**, NLP pipelines, and **Agentic AI** frameworks.
- **Aeren IT Solutions Pvt. Ltd.,** *Summer Intern* *(Jun' 24)*
  - Developed a **home security system** using **face recognition** libraries to enhance security measures.
- **Aeren IT Solutions Pvt. Ltd.,** *Summer Intern* *(Jun' 23)*
  - Worked on developing **home automation systems** to improve efficiency and enhance user convenience.

PROJECTS

- **SmartBite – AI Wellness Engine** | Link *(Apr' 25-Jun' 25)*
  - Developed an OCR-NLP based system to extract food items from restaurant bills and analyze their nutritional values.
  - Mapped extracted items to a calorie database to generate insights like total calories, fats, proteins, and carbs.
  - Delivered personalized health feedback with data visualizations using bar and pie charts.

- **Fault Detection System for Electricity Meters**, *Kimbal Technologies* | Link *(Jan'24-Jul'24)*
  - Developed an OpenCV & AI based fault detection system for electricity meters on Raspberry Pi 5.
  - Applied Python and its libraries like OpenCV for **testing**, image preprocessing, and **model creation**.
  - Optimized and tested the system to enhance fault detection accuracy and efficiency.

- **Data Prediction and Analysis System** | Link *(Feb25-Mar' 25)*
  - Developed a **predictive model** using Machine Learning to analyze and forecast data trends.
  - Implemented data preprocessing, model training, and **evaluation techniques** for improved accuracy.

- **Gesture Control Car ,** *IPD Expo (2nd Runner Up-Award)* *(Jan'23-May'23)*
  - Created a gesture-controlled car with Arduino and gyroscope sensors, utilizing Bluetooth for communication.
  - Designed and assembled hardware and programmed the Arduino for gesture recognition.

POSITION OF RESPONSIBILITY

- **Music Coordinator (Cultural Fest)** | *CCET Diploma Wing* *(Feb'22- Mar'22)*
  - Oversaw sound setup, rehearsal schedules, and live performance execution.
  - Collaborated with technical teams to **troubleshoot** sound issues, ensuring smooth live performance execution.

TECHNICAL SKILLS

- **Programming & Development :** Python, SQL, Flask, OpenCV, Image Processing
- **Data Analysis & Visualisation** : Pandas, NumPy, Matplotlib, Seaborn, Plotly, Microsoft Excel, MS Office
- **AI & NLP Tools :** Hugging Face, NLP Techniques, Transformers
- **Research & Other Tools** : Ahrefs, SEMrush, Google Analytics, Jira (Basic)

EXTRA-CURRICULAR

- **Active Member of NSS**
- **Designed engaging and creative content for college events**
- **Competed actively and won 5 times in Inter- School Cricket Tournaments**