

DEV AGARWAL

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AI/ML enthusiast with strong foundations in **Python, Neural Networks, and LLMs**. Eager to apply **predictive modeling and NLP** to solve complex challenges in professional domain. Experienced in developing robust **data pipelines**, and passionate about leveraging AI for operational efficiency and optimization. Leadership and participation in several hackathons. (SIH 2024, SPH 2025 #4, SIH 2025)

EDUCATION

Pranveer Singh Institute of Technology, Kanpur

Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence)

CGPA: 8.8

Relevant Coursework: Data Structures and Algorithms, AI/ML, Operating Systems

October 2023 – July 2027

Kanpur, Uttar Pradesh, India

GS Convent

Senior Secondary Education

Percentage: 88%

April 2020 – May 2022

Sitarganj, Uttarakhand, India

WORK EXPERIENCE

- AuthScan (A Certificate Authenticator for Academia)** September 2025 – Present
 - Developed a secure documentation pipeline using **AI and CV** to validate certificates, crucial for compliance in regulated industrial environments.
 - Implemented a multi-verification process including MRZ/OCR extraction (**80–85% accuracy**), **tamper detection**, and **SHA-256 hashing** anchored on the Polygon blockchain for immutable audit trails.
 - Leveraged **Llama's visual embedding** to enhance text recognition on low-quality scans, projecting a **10–20% recall improvement** for critical data fields.
- MCQ Generator (Automated Knowledge Assessment Tool)** August 2025
 - Developed an AI-powered quiz generator using **LangChain** and **Google Gemini 2.5**, reaching **95% JSON parsing accuracy**.
 - Automated MCQ-based quiz generation with difficulty/tone controls, **reducing manual creation time by ~80%**.
 - Designed a Gradio-based interface supporting text file uploads and facilitating **real-time quiz generation in under 2 minutes**.
- Company Brochure Generator (Automated Market Intelligence Tool)** July 2025
 - Scraped and processed **200+ company websites** using BeautifulSoup, **reducing text noise by 70%**.
 - Generated summaries with **Ollama Llama 3.2**, producing **3–5 page Markdown brochures**.
 - Built a scalable framework delivering **customized brochures within 45 seconds** per request.

TECHNICAL SKILLS

Programming Languages: C/C++, Python, HTML, CSS

Generative AI and NLP: Fine-tuning, RAG, LangChain, Hugging Face, Llama, NER, Transformers

Data Science and ML: NumPy, Pandas, Matplotlib, scikit-learn

Database: OracleSQL, MongoDB

Visualization and Tools: Power BI, Excel, PowerPoint, JupyterLab, Colab, VS Code

CERTIFICATIONS

- LLM Engineering: Mastering AI, Large Language Models & Agents** July 2025

Udemy – Ligency Team (Ed Donner)
Trained in **LLM fine-tuning, deployment**, and **agent workflows**.
- Python Data Structures & Algorithms** August 2025

Udemy – Scott Barrett
Implemented optimized **data structures and algorithms** in Python
- Problem Solving (Basic)** August 2025

HackerRank
Strengthened **DSA and algorithmic problem-solving** through coding challenges.