KANCHAN RAI

Aspiring Software Engineer

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EDUCATION

- **Bachelor of Technology in Computer Science & Engineering** — Expected April 2026
  Amity University, Noida — 9.14 CGPA

- **AISSCE CBSE Grade 12** — 2019 - 2022
  Kendriya Vidyalaya No 1 AFS Hindon — 93.2 Percentage

SKILLS

Programming Languages: C/C++, Python, Java, HTML, CSS, Linux Shell Script
Databases: MongoDB, SQL
Technologies: Flask, Fast API, Django, NumPy, Pandas, Scikit-Learn, Tensorflow, Azure AI Services, EDA, Fine Tuning LLMs, Data Analysis, Hyperparameter Tuning, Object Detection using YOLO
Tools: Figma, Git, GitHub, Visual Studio Code, Jupyter, Postman, Firebase

WORK EXPERIENCE

DRDO, SSPL – Software Development Intern — May 2025 – Present
- Designed and developed a scalable database management system to handle research project data across multiple government-funded schemes.
- Contributed to building an interactive analytics dashboard (DARPAN) for monitoring and evaluating projects under the DIA-CoE initiative, enabling data-driven insights.
- Deploying the application on a secure private cloud network to ensure controlled access, data integrity, and compliance with internal infrastructure protocols.

Digital Hercules Innovation – AI/ML Developer Intern — April 2025 – Present
- Fine-tuned large language models (LLMs) for keyword generation and extraction to enhance campaign automation workflows.
- Implementing and rigorously testing keyword extraction logic, data pipelines for CreateAIGenie project's performance metrics, and LLM-based rewriting systems.

BharatXR – ML Analyst Intern — May 2024 – July 2024
- Developed and deployed an AI-powered Text-to-Image Generation app using Stable Diffusion and Flask, hosted on Azure Cloud for scalable access.
- Built ML-driven tools including an Event Data Visualizer for pattern recognition, an NSFW detection model for safe image filtering, and a real-time Bouncy Email Sender using queue handling.
- Designed a secure data transfer system from phpMyAdmin to MongoDB and contributed to the UI/UX of BharatXR's blog, integrating ML-assisted content workflows.

CERTIFICATIONS

MicrosoftAzure AI Engineer Associate (AI 102) – Verify — June 2025
Micorsoft Azure AI Fundamentals (AI-900) by Microsoft - Verify — March 2025
GitHub Foundations Certification by GitHub - Verify — February 2025
Cloud Computing by IIT Kharagpur – Verify — October 2024
Python for Data Science by IIT Madras - Verify — April 2024
API Fundamentals Expert by Postman - Verify — June 2023

PROJECTS

Krishi Mitr — GitHub
- Developed a personalized farming assistant with district-wise rainfall prediction using CatBoost, XGBoost, and Random Forest.
- Built a crop recommendation system based on local soil conditions and historical data.
- Designed an interactive dashboard using Streamlit for real-time insights on weather, soil, and crop suitability.

Face Detection & Recognition using Machine Learning & Arduino — GitHub
- Developed a Python-based face detection system using OpenCV and YOLOv3, integrated with Arduino for real-time signal transmission.
- Implemented a face recognition system using a pre-trained ResNet-18 model, enabling accurate identification and authentication.
- Integrated both systems with Arduino to provide real-time responses based on face detection and recognition results.

ADDITIONAL INFORMATION

Google Developer Groups on Campus - Organizer and Community Lead — September 2024 – Present
Microsoft Learn Student Community – Design Lead — January 2024 - Present
Geeks for Geeks Student Chapter – Design Lead — June 2023- January 2024