Komal Gupta

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EDUCATION

The Northcap University   Gurugram,Haryana
Bachelor of Technology in Computer Science, specialize in AIML- 8.51 CGPA   *Sep. 2020 – June 2024*
Blue Bells Public School   Sector10, Gurugram
Non - Medical with CS -87%   *March 2019 – March 2020*

EXPERIENCE

Gen. AI Developer   Jan 2025 - Present
Freelance   *Remote*
- Building a **Multi AI Agent** chatbot for question answering
- Research comparison on different opensource **huggingface LLM's Models** and **AI Frameworks**
- Deploying docker container on Hugging face Spaces

Gen. AI Developer   July 2024 - Present
Genpact Pvt. Ltd.   *Gurgaon*
- **Optimization** of Gen. AI bots integration with **kore.ai**
- Designing POC solutions for **Gen. AI use cases** using **LLM's** and **RAG - Langchain Framework**
- Working on **AI Agents** using **Langraph and Crew AI**
- Working Closely on deploying AI Solutions on VM and Azure cloud for Production level

Gen. AI Developer (Contract)   Jan 2024- July 2024
Mages Studio   *Singapore Remote*
- Deployed chatbots on **AWS and Gcloud**. Hosting opensource **LLM** on **Sagemaker**
- Designed an **E-learning platform** which generates content using **Generative AI**

SDE Intern - Digital Products   July2023 - Jan 2024
Volkswagen IT Services   *Gurgaon*
- Received **Innovation Quarter award** in my team.
- Designed a state-of-the-art **Generative AI and NLP** project to advance innovation and **streamline processes** using **LLM and Langchain**.
- Developed a dynamic **OCR application** that can work on GST invoices of **5 different country languages** and give us the key insights from the invoice.

Machine Learning Research Analyst   June 2022 – OCT 2022
Universal Technical Systems Pvt. Ltd. (India)   *Gurgaon*
- Worked on **Machine Learning Model** and making pre - defined functions for their **TKSolver** product application.
- Developed a **GUI based Machine Learning application** in a team
- Explored ways to visualize GitHub collaboration and various other technologies

EXTRACURRICULAR

Google Cloud Computing Foundation Mentor   March 2022 – August 2022
Google Cloud   *India*
- As a Google Cloud mentor, I assist peers with training, troubleshoot technical queries, and oversee student Qwiklab's progress. Being a bridge between the University and the Program head.

AngelHack Student Ambassador   Aug 2021- Aug 2022
AngelHack Community
- Being the AngelHack representative at my university. I organize tech events and webinars to spread knowledge and training about new technologies.
- Build a Team to perform various operations for smooth working of campus hub
- Helping your friends boost self-confidence in our self to do more such things

PROJECTS

AIML Research Project | *Python,AWS, Generative AI,LLM, Machine Learning*
- Received **TIH IIT Bhilai Fellowship**
- Developed and designed an **AWS OCR customized API and RestAPI** for Integrations Research paper
- Succesfully deployed and designed a AWS enhanced Document Management system using AWS AI Textextract, Lamba functions and other services
- Completed **2 Certifications** Linkedin Learning -Programming Foundations: Test-Driven Development & Agile Foundations

LLM Integrated Langchain Chatbot | *Python,Generative AI,LLM,Machine Learning*
- Writing a research paper on LLM chatbots for enterprise use
- Developed a helpful chatbot using Open-source LLM integrated with MySql. Writing a Research Paper on LLMs

Skin Cancer Prediction Using CNN | *Python,Deep Learning,Git,Machine Learning*
- Model is trained over 10,000 images and has given the accuracy of 91.3%

GUI ML Model | *Python,Pyqt5,Excel,Git,Machine Learning*
- Developed a GUI-based application through which we can automate the ML algorithm on any dataset without writing code. It can do all types of visualization handling and pre-trained model

Hand Gesture Recognition Mouse | *Python, OpenCV, Numpy, Mediapipe, CV2*
- Developed a python application which can use your hands as a mouse to operate functions like right click, scroll, left click, drag, etc. via hand recognition

SnapChat Web Filters | *Python, OpenCV, Numpy, CV2*
- Snapchat filters under an OpenSource project which can be used on desktop/laptop via web camera. It uses Face Recognition.

RESEARCH PUBLICATIONS

- **Automating Credit Card Information Processing: Combining OCR with Advanced AI Techniques - Submitted** at ICAN 2024 - SN Computer Science Journal
- **Skin Cancer Prediction Model Using CNN Deep Learning - Accepted** at 12th International Conference on SocProS 2023
- **Digitization of health insurance documents for the cashless claim settlement using Intelligent Document Management System** - Published at ICMLDE 2023

CERTIFICATIONS

- AWS Academy Machine Learning Foundations
- Linkedin Learning - Agile Foundations
- Linkedin Learning - Programming Foundations: Test-Driven Development
- Coursera - Introduction to Artificial Intelligence
- Coding Ninja - Introduction to Java
- Coursera - Innovation Through Design: Think, Make, Break, Repeat

SKILLS

Languages: Java, Python, C, MySQL, HTML/CSS , ML,Deep Learning, MongoDb
Frameworks: Django, WordPress, Flask, FastAPI
Developer Tools: Git, Google Cloud Platform, Azure,AWS, VS Code, IDLE , Jupyter, Eclipse , Collab, Sublime
Libraries: pandas, NumPy, Matplotlib,NLP, Sklearn , Pyqty , JQuery, OpenCV , Scipy, Mediapipe,langchain , OpenAI , HuggingFace, Langraph , ollama, Crewai , Hugging face Transformers

VOLUNTEER EXPERIENCE

Technical Societies : *Google Cloud Computing Foundation , Angelhack Student Ambassador*   2022
Social Societies : *NSS NCU , Enactus NCU , Chetna*   Oct. 2020 - June 2024
- We on regular basis organize drives and campaign to help the needy ones by donation the food , stationary and other necessary items which we collect from other university students as a donation.
- In NSS we organize cultural events to spread a message about social problems like education , women rights also entrepreneurial ideas which can help them to start their small businesses