RAHUL SHARMA

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I am a bachelors graduate from HKBK College of Engineering with a B.E/B.Tech. in Computer Science & Engineering, and actively seeking full-time software engineering, machine learning, and AI roles. My expertise lies in developing AI models across diverse domains including computer vision, natural language processing, and machine learning with a proven track record of research projects.

TECHNICAL SKILLS

Languages and Libraries: Python, PyTorch, TensorFlow, NumPy, Matplotlib, Pandas, C++, C, HTML/CSS, JavaScript, Django
Tools: Git/GitHub, Linux, Terminal, MongoDB, MySQL, SQLite, Google Cloud, Azure, VS Code, Docker
Research Areas: Machine Learning, Computer Vision, Transformers, GANs, NLP, Diffusion Models, RAGs

EDUCATION

HKBK College of Engineering **Bangalore, India**
B.E/B.Tech. Computer Science & Engineering. CGPA: 8.6/10 Sep 2020 – Jun 2024

Mahesh PU College **Bangalore, India**
12th/II PU Science (Physics, Chemistry, Mathematics, Electronics) April 2019 – Mar 2020
Marks: 463/600 | *Percentage: 78%*

MES Public High School **Bangalore, India**
10th Standard April 2017 – Mar 2018
Marks: 550/625 | *Percentage: 88%*

PUBLICATIONS

Beyond Imagery: AI-Enhanced Diagnostic Assistant for Cancer and Tumor Diagnosis using Radiology Imaging
Authors: Dr. Nandha Gopal S M, ***Rahul Sharma****, Nithin M, Prajwal B R, Prashanth Kalgonda* *link*

WORK & RESEARCH EXPERIENCE

HKBK College of Engineering | *Undergraduate Researcher* **Aug 2023 – May 2024**
- Developing a model to analyze and respond to questions on biomedical images which gives the accuracy of more than 70%.
- Conducted research on fine-tuning a large language model like LLaMA for medical question and answering use.
- Designed a R CNN based model to extract the template and information from document for fraud analysis.

Varcons Technologies | *Machine Learning Engineering Intern* **Aug 2023 – Sep 2023**
- Built a predictive sentimental analysis model for stock price prediction which achieves the accuracy of above 80%.
- Conducted research on various machine learning topics on computer vision and language processing systems

RESEARCH PROJECTS

Medi-Care: VQA for medical imaging **Oct 2023 – May 2024**
- Developing a multimodal for analysis and responding for medical images using diverse VQA datasets. *link*
- Fine-turning and combined the LLaMA models for question answering with the accuracy above 75%.
- Incorporated the RAG techniques to increase the accuracy and credibility of the model for knowledge intensive tasks.

Document template matching using N shot learning and R-CNN based approach **Nov 2023 – Present**
- Developing a model using R-CNN or YOLO based approach for detecting template and character of the document.
- Incorporated n shot learning for matching the original document gives the accuracy of more than 80%.

Diffusion Detect **April 2024 – Present**
- Integrated Stable Diffusion and YOLO for text-to-image generation and object detection. *link*
- Implemented pipeline for text prompts, image generation via Stable Diffusion, and YOLO object detection.

CERTIFICATIONS

Oracle Cloud Infrastructure 2024 Generative AI Certified Professional — **June 2024**
Oracle — *link*

Microsoft Certified: Azure Data Scientist Associate — **June 2024**
Microsoft — *link*

Deep Learning — **Aug 2023**
DeepLearning.AI — *link*

Machine Learning — **April 2023**
DeepLearning.AI — *link*

Microsoft Certified: Azure AI Fundamentals — **Feb 2023**
Microsoft — *link*