RAHUL SHARMA

rahulsharmaviswakarma@gmail.com
Bengaluru, IN |+917349485773
linkedin.com/in/rahulsharmavishwakarma | rahulsharmavishwakarma.github.io

Recent Computer Science & Engineering graduate with a strong foundation in AI, machine learning, and software development. Experienced in developing and fine-tuning AI models for computer vision, NLP, and biomedical applications. Proven track record in research and practical implementations, seeking full-time opportunities in AI and machine learning.

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

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

MES Public High School   **Bengaluru, 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**
 - Developed 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**
 - Developed a multimodal model for analyzing and responding to medical images using diverse VQA dataset   *link*
 - Fine-tuned LLaMA models for question answering, achieving over 75% accuracy.
 - Incorporated RAG techniques to enhance model accuracy and credibility for knowledge-intensive tasks.

Document template matching using N shot learning and R-CNN based approach   **Nov 2023 – Present**
 - Developed 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

MongoDB Certified Associate Developer   **June 2024**
  MongoDB   *link*

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*