

# RAHUL SHARMA

+91 7349485773 — [rahulsharmavishwakarma@gmail.com](mailto:rahulsharmavishwakarma@gmail.com) — [linkedin/in/rahulsharmavishwakarma](https://www.linkedin.com/in/rahulsharmavishwakarma)  
[github/rahulsharmavishwakarma](https://github.com/rahulsharmavishwakarma) — [rahulsharmavishwakarma.github.io](https://rahulsharmavishwakarma.github.io)

**Summary** — 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. Proven track record in research and practical implementations, seeking full-time opportunities in Software Engineering, AI and machine learning.

## Skills

**Programming Languages:** Python, SQL, JavaScript, C++ , Java, HTML, CSS

**Libraries:** Numpy, Pandas, Matplotlib, Seaborn, TensorFlow, PyTorch, Scikit-Learn, Django, FastAPI, NLTK, Langchain, MLflow

**Tools:** Azure, GCP, AWS, Git/GitHub, Docker, Linux, VS Code, HuggingFace, Jupyter, Hadoop, Data Structures

**Databases:** MySQL, SQLite, MongoDB, Neo4j, Vector Databases, Pinecone, Milvus

**Machine Learning:** Deep Learning, Computer Vision, NLP, GANs, LLMs, Transformers, VAEs, Diffusion Models, RAGs, Generative Models, Mutlimodal Models, R-CNNs

## Experience

### HKBK College of Engineering

Aug 2023 – May 2024

*Undergraduate Researcher*

- Developed a model to analyze and respond to questions on biomedical images with over 70% accuracy.
- Conducted research on fine-tuning large language models like LLaMA for medical question-answering.
- Designed an R-CNN-based model to extract templates and information from documents for fraud analysis.

### Varcons Technologies

Aug 2023 – Sep 2023

*Machine Learning Intern*

- Built a predictive sentiment analysis model for stock price prediction, achieving over 80% accuracy.
- Conducted research on various machine learning topics in computer vision and language processing systems.

## Publications

**Beyond Imagery: AI-Enhanced Diagnostic Assistant for Cancer and Tumor Diagnosis using Radiology Imaging** [link](#)

Authors: Dr. Nandha Gopal S M, Rahul Sharma, Nithin M, Prajwal B R, Prashanth Kalgonda

Mar 2024

International Journal On Engineering Technology and Sciences (IJETS)

## Education

### Visvesvaraya Technological University

Bengaluru, India

Bachelor of Engineering(B.E/B.Tech) in Computer Science and Engineering

Sep 2020 – June 2024

CGPA: 8.6/10

### Mahesh PU College

Bengaluru, India

12th Standard/PU in PCME

May 2019 – Mar 2020

Percentage: 78% — Marks: 463/600

### MES Public High School

Bengaluru, India

10th Standard

Apr 2017 – Mar 2018

Percentage: 88% — Marks: 550/625

## Projects

### Medi-Care: VQA for Medical Imaging

[link](#)

- Developed a multimodal model for analyzing and responding to medical images using a diverse VQA dataset.
- 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

- Developed a model using R-CNN and YOLO for detecting templates and characters in documents.
- Incorporated N-shot learning for document matching, achieving over 80% accuracy.

### Diffusion Detect

[link](#)

- Integrated Stable Diffusion and YOLO for text-to-image generation and object detection.
- Implemented a pipeline for text prompts, image generation via Stable Diffusion, and YOLO object detection.

- Training YOLO object detection models for custom datasets

link
- Developed the algorithm to convert the annotations from Pascal VOC format to YOLO format.
  - Developed a YOLO-based model for detecting personal protective equipment (PPE) in images, with a focus on improving workplace safety.
  - Trained the model on a custom dataset to accurately identify various PPE items like helmets, gloves, and safety vests.

Certifications

---

<b>MongoDB Certified Associate Developer</b> <i>MongoDB</i>	<b>July 2024</b> <i>link</i>
<b>Oracle Cloud Infrastructure 2024 Generative AI Certified Professional</b> <i>Oracle</i>	<b>June 2024</b> <i>link</i>
<b>Microsoft Certified: Azure Data Scientist Associate</b> <i>Microsoft</i>	<b>June 2024</b> <i>link</i>
<b>Deep Learning Specialization</b> <i>DeepLearning.AI</i>	<b>Aug 2023</b> <i>link</i>
<b>Microsoft Certified: Azure AI Fundamentals</b> <i>Microsoft</i>	<b>Feb 2023</b> <i>link</i>