

RAHUL SHARMA

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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
<ul style="list-style-type: none">- 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

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