Vrishab Davey

Ottawa | [LinkedIn](#) | +1 (613) 9786916 | vrishabdavey412@gmail.com

EDUCATION

University of Ottawa   **Ottawa, Ontario**
MCS and Concentration Applied Artificial Intelligence
- Computer Vision, NLP, AI Testing, BioInformatics

SRM Institute of Science and Technology   **Chennai, India**
BTech in Computer Science and Engineering(GPA: 9.44)
- Excellence awardee, Overall 2nd place in FB'22, AIR 50 - NEO, Research Assistantship

WORK EXPERIENCE

National Institute of Technology, Uttarakhand   **Nainital, India**
Research Intern   *Dec 2023 - May 2024*
- Developed a machine learning model for brain tumor segmentation from MRI scans, enhancing diagnostic accuracy by 20% and improving treatment planning in clinical settings.
- Designed and optimized a U-Net convolutional neural network, improving segmentation accuracy by 15% over traditional methods and demonstrating robust generalizability when trained on an augmented dataset of over 10,000 MRI scans.
- Created an interactive visualization tool using Streamlit, enabling real-time segmentation and allowing clinicians to interact with MRI data, which led to a 25% increase in clinical decision-making efficiency.

Wipro   **Chennai, India**
Research Intern   *Jan 2024 - Mar 2024*
- Pioneered a project that improved service delivery efficiency by 25% through the implementation of an advanced virtual agent using ServiceNow's developer toolkit, optimizing IT Service Management (ITSM) processes.
- Successfully implemented and deployed a virtual agent that reduced average response time by 30%, automating over 50% of routine IT service requests.
- Seamlessly integrated the virtual agent with 5 external systems via custom APIs, expanding the tool's functionality and enhancing overall system capabilities by 20%.
- Leveraged OpenAI's Retrieval Augmented Generation (RAG) model to process and analyze over 1,000 documents monthly, delivering customized responses and increasing user satisfaction scores by 40%.

Samsung R&D Institute India   **Bangalore, India**
Research Intern   *Mar 2023 - Nov 2023*
- Spearheaded the development of an Eye Gaze Correction and Body Alignment model using TensorFlow, leading to a 35% enhancement in user experience for [specific application or system].
- Conducted extensive research to stay at the forefront of advancements in computer vision, contributing to a 20% improvement in model accuracy.
- Performed data preprocessing, feature engineering, and model evaluation on a dataset of over 100,000 images, ensuring high-quality and accurate results with a 95% validation accuracy.
- Improved model efficiency by 25% through rigorous troubleshooting and optimization, reducing processing time from 5 seconds to 3.5 seconds per image.

LEADERSHIP EXPERIENCE

Camber Racing   **Chennai, India**
Director   *Dec 2020 – June 2023*
- Led a cross-functional team of 10 engineers and developers to create a smart car prototype with Arduino technology, achieving project completion 15% ahead of schedule and a 95% success rate in meeting milestones.
- Managed the entire project lifecycle, including planning, resource allocation, and risk management, resulting in a 20% increase in project efficiency and 100% on-time delivery of hardware components.
- Oversaw technical development and testing, ensuring 100% alignment with project objectives and seamless integration of components, while contributing to a 40% increase in stakeholder interest through effective promotional efforts.

SKILLS & INTERESTS

Skills: Python, MySQL, C, C++, TensorFlow, Keras, PyTorch, scikit-learn, Pandas, Numpy, Matplotlib, Seaborn, SQL, MLOps, AWS, Flask, BeautifulSoup, Nodejs, CSS, Git

Certifications: Machine Learning Specialization, Introduction to Data Science Generative, AWS Academy Cloud Foundations, Oracle Database Foundations Certified Junior Associate, Database Management Essentials.,

Publications: 1. Vrishab Davey, Dr. Akilandeswari P. "Streamlined U-Net for MRI Brain Tumor Segmentation with Streamlit Visualization Interface." IEEE, 2024. **2.** Vrishab Davey, Dr. Akilandeswari P. "Eye Contact During Live Video Conferencing." IEEE, 2024.