Varun Kamath

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Education

PES University | Computer Science and Engineering   *10/2021 - 06/2025*
- Cumulative **GPA: 9.27/10.00** *[As of Sept 2023].*
- Received **MRD Scholarship** for top 20% ranking in the 1st, 2nd, and 3rd semesters and **CNR Rao Scholarship** for top 5% in the 4th semester at PES University.
- **Coursework:** Software Engineering, Statistics for Data Science, Data Structures and Algorithms, Big Data, Python, C, Operating Systems, Database Management, Computer Networks.

Experience

STARC-PESU Project Intern   *06/2023 - 07/2023*
- Developed a cricket wide detection model using Python and open-source modules, achieving a rapid 1 minute and 20-second processing time.
- Designed a precise batsman pose detection system with image processing for accurate wide line detection, real-time 3D visualization in Unity Engine.

Projects

Distributed Load Testing System - Github   *11/2023 - 11/2023*
- Coordinated multiple driver nodes, ensuring high concurrency and throughput in load tests on a web server in a 3-week timeline.
- Integrated Kafka for seamless communication, enabling coordination between orchestrator and driver nodes.
- Implemented a robust observability system, providing real-time metrics and dashboards for response latency across all nodes.

Online Assignment Submission System - Github   *11/2023 - 11/2023*
- Developed and deployed an online assignment submission system using NextJS and Tailwind CSS within 2 months.
- Integrated SQL for efficient data management, implemented plagiarism checks for submission integrity.

Portfolio website - Github **-** Portfolio   *08/2023 - 08/2023*
- Designed and built a personal portfolio website from scratch within a 2-day turnaround using NextJS, Typescript, React, Tailwind CSS.
- Deployed the portfolio project on Vercel for seamless online accessibility and enhanced user engagement.

Rift - Social Media Web Application - Github   *06/2023 - 07/2023*
- Engineered a full-stack social media platform, similar to Twitter, allowing users to post tweets and facilitate private messaging.
- Utilized the MERN stack, harnessed React to design and implement the platform within a 2-month timeframe.

NeuraLap: The Autonomous Racing Project - Github   *01/2023 - 03/2023*
- Implemented a self-learning racing car system using the NEAT algorithm and Neural Networks, completing tracks within 5 generations.
- Played a pivotal role in crafting and refining the neural networks component, elevating its overall performance and sophistication.

Skills

Programming Language:	Python, C/C++, R, SQL
Machine Learning:	Scikit-learn, Pandas, NumPy, Mediapipe
Big Data:	Hadoop, Kafka, Spark, PySpark
Web Technologies:	HTML, CSS, React, JavaScript, NodeJs, ExpressJs, NextJs, Tailwind CSS, Typescipt, AJAX, API
Soft Skills:	Teamwork, Communication, Collaboration
Additional Skills:	Blender, Design, Video Editing

Additional Courses

- Completed the Recommendation System Course by PESU I/O.
- Completed Machine Learning with Python on Udemy. [Certificate]
- Completed NLP Empowerment with Python and OpenAI.