

Varun Kamath

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Education

PES University | Computer Science and Engineering (Expected Graduation: June 2025)

- Cumulative **GPA: 9.22/10.00** [As of Feb 2024].
- **CNR Rao Scholarship** (Top 5% Ranking in 4th semester)
- **MRD Scholarship** (Top 20% Ranking in 1st, 2nd and 3rd Semesters)
- **Coursework:** Software Engineering, Statistics for Data Science, Data Structures and Algorithms, Big Data, Python, C/C++, Operating Systems, Database Management, Computer Networks, Cloud Computing.

Experience

STARC-PESU Project Intern | Jun 2023 – Jul 2023

- Developed cricket wide detection model with achieving a rapid 1 minute and 20-second processing time.
- Designed precise batsman pose detection system with real-time 3D visualization in Unity Engine.

Projects

Distributed Load Testing System | [Github](#)

- Coordinated multiple driver nodes for high concurrency in load tests on server.
- 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.

Cosmos: Desktop Voice Assistant | [Github](#)

- Python-based voice assistant utilizing Google Text-to-Speech with a responsive GUI performing FFT on real-time voice input.
- Performs lookup on items/people, records voice notes with transcription, and performs mathematical operations.

NeuraLap: The Autonomous Racing Project | [Github](#)

- Implemented a self-learning racing car system using the NEAT algorithm and Neural Networks, completing tracks within 5 generations.

Portfolio website | [Github](#) | [Portfolio](#)

- Designed and built personal portfolio website using NextJS, React, and Tailwind CSS.
- Deployed on Vercel for seamless online accessibility.

Online Assignment Submission System | [Github](#)

- Developed an online assignment submission system using NextJS, Tailwind CSS, NodeJS and SQL.

Skills

Programming Language:	Python, C/C++, R, SQL
Machine Learning:	Scikit-learn, Pandas, NumPy, Mediapipe
Big Data:	Hadoop, Kafka, Spark, PySpark, Spark SQL
Web Technologies:	HTML, CSS, React, JavaScript, NodeJs, ExpressJs, NextJs, Tailwind CSS, Typescript, 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.