

# Varun Kamath

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## Education

**PES University** | Computer Science and Engineering

Bangalore, India | 2021-2025

- 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, Machine Intelligence, Programming in Python, Operating Systems, Database Management System, Programming in Python, Programming in C.

## Experience

**STARC-PESU Project Intern**

06/2023 - 07/2023

- Developed a cricket wide detection model utilizing Python and open-source modules, achieving a rapid 1 minute and 20 second processing time.
- Designed a precise batsman pose detection system, employing image processing techniques for accurate wide line detection on the pitch, with real-time 3D visualization in Unity Engine.

## Projects

**Fetal Health Classification Data Analysis** - [Google Colab](#)

09/2023 - 09/2023

- Executed a comprehensive data analysis project for "Fetal Health Classification" using Kaggle dataset.
- Applied EDA, data pre-processing, manipulation, cleaning, reduction, and optimization, achieving 97% accuracy.

**My Portfolio** - [Github](#) - [Portfolio](#)

08/2023 - 08/2023

- Designed and built a dynamic personal portfolio website from scratch within a 2-day turnaround using Next.js, Typescript, React, and Tailwind CSS for frontend framework.
- Deployed the portfolio project on Vercel to ensure seamless online accessibility and enhance 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 (MongoDB, Express.js, React, Node.js) stack and harnessed the React framework to design and implement the platform, within a 2-month timeframe.

**Cisco Inventory Management and Demand Prediction** - [Github](#)

03/2023 - 03/2023

- Collaborated in a 24-hour hackathon with a team of 4 to develop a forecasting model for Cisco's Inventory Management and Demand Prediction challenge, utilizing Python and diverse ML Models.
- Showcased versatility by spearheading data preprocessing, enhancing dataset suitability for model creation, and actively participating in the model-building phase with Python and various ML models.

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

01/2023 - 03/2023

- Implemented a self-learning racing car system utilizing the NEAT algorithm and Neural Networks, completing tracks within 5 generations.
- Played a pivotal role in crafting and refining the neural networks component of the project, elevating its overall performance and sophistication.

## Skills

<b>Programming Language:</b>	Python, Object-oriented C/C++ programming, R, SQL
<b>Machine Learning:</b>	Scikit-learn, Pandas, NumPy, Mediapipe
<b>Data Visualization:</b>	Matplotlib, Seaborn
<b>Web Technologies:</b>	HTML, CSS, ReactJS, JavaScript, Node.js, Express.js, Next.js, Tailwind CSS, Typescript, AJAX, API
<b>Soft Skills:</b>	Teamwork, Adaptability, Communication, Collaboration
<b>Additional Skills:</b>	Blender, Design, Video Editing

## Additional Courses

- Completed the Recommendation System Course by PESU I/O.
- Completed the course on Machine Learning with Python on Udemy. **Link:** [Certificate](#)
- Completed the course on NLP Empowerment with Python and OpenAI