

Varun Kamath

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Education

- **PES University** Bangalore, India
Bachelor's in Computer Science and Engineering; CGPA: 9.27/10.00 2021-2025

Experience

- **STARC-PESU Project Intern**
 - Utilized *Python* and various open-source modules to implement a *wide detection model* for cricket.
 - Developed a *pose detection model* to accurately track the batsman's position and utilized *image processing techniques* to effectively detect wide lines on the pitch. Used *Unity Engine* for 3D representation.

Projects

- **Rift Website**
 - Developing a social media platform using *ReactJS* for the front-end, *ExpressJS* for backend API calls, and *MongoDB* for the database.
- **Course Recommender**
 - Developed a content-based course recommender using *Python* and *Streamlit*, employing algorithms to analyse user preferences and course content for personalized recommendations
- **NeuraLap: The Autonomous Racing Project**
 - Implemented a deep learning car which learns to race on any given track using NEAT algorithm and *Neural Networks from scratch* using *NumPy* and *Pygame*, with a team of 4.
- **Hashcode Hackathon**
 - Participated in a 24-hour hackathon with a team of 4 to develop a forecasting model to the problem statement given by **Cisco** in the field of **Inventory Management and Demand Prediction** using *Python* and various **ML Models**.
- **Monopoly game**
 - Developed a mini monopoly game in *C programming* with *GUI on terminal*

Skills

- **Languages:** Python, C/C++, R programming
- **Machine Learning:** Scikit-learn, Pandas, NumPy, Mediapipe, Matplotlib, Seaborn, Data Visualization
- **Web Tech:** HTML/CSS, ReactJS, JavaScript, Nodejs, ExpressJS, NextJS, Tailwind CSS
- **Soft Skills:** Teamwork, Time management, Situational analysis, Adaptability
- **Others:** Blender, Design, Video Editing

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*.

Leadership and Scholarships

- **MRD Scholarship** awarded by PES University for placing **top 20%** of university in 1st, 2nd and 3rd semester each.
- **Sponsorship Coordinator** for college fest Maaya at PES University
- **Former Vice President** of SNBP International School, Pune, Maharashtra (9th Grade)

Achievements

- **7th** in Hacknight, a coding competition to get most PR's accepted on Github (Oct 2022)
- **8675th** in Google Code Jam (Feb 2022)
- **1st** in Relay race in 9th grade (Jan 2018)
- **1st** in 300m roller-skating (Feb 2015)
- **3rd** in 300m roller-skating (Feb 2014)