Varun Kamath

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EDUCATION

PES University | *Computer Science and Engineering (Expected Graduation June 2025)*
- **Cumulative GPA: 9.20/10.00** *(As of June 2024)*
- **MRD Scholarship** *(Top 5% Ranking in 4th and 5th semester)*
- **CNR Rao Scholarship** *(Waiver of 40% of fees for the 1st, 2nd & 3rd semesters)*
- **Coursework:** Software Engineering, Statistics for Data Science, Data Analytics, Machine Intelligence, Data Structures and Algorithms, Big Data, Operating Systems, Database Management, Computer Networks, Cloud Computing.

EXPERIENCE

STARC-PESU Project Intern | *Jun 2023 – Jul 2023*
- Engineered a highly efficient cricket wide detection model, reducing processing time to an impressive 60 seconds through advanced image processing and optimization techniques.
- Designed and implemented an advanced batsman pose detection system with real-time 3D visualization using Unity Engine, enhancing accuracy and providing immersive visual feedback.

PROJECTS

Distributed Load Testing Framework | *Team-size: 4* | *Github*
- **Description:** Architected a high-concurrency distributed load testing framework to evaluate application performance under extreme conditions. Implemented multi-node orchestration and real-time metrics aggregation.
- **Tech Stack:** Python, Apache Kafka, Javascript.
- **Outcome:** Successfully conducted avalanche and tsunami load testing, demonstrating the server's capability to handle over 12,000 concurrent requests with an average response time of 120ms, providing actionable insights for optimizing performance.

Real-Time F1 Data Streaming and Analytics System | *Team-size: 4* | *Github*
- **Description:** Developed an advanced real-time telemetry data streaming and analytics system for F1 driver performance. Implemented sophisticated watermarking techniques to handle late data and performed complex aggregation operations.
- **Tech Stack:** Apache Spark, Structured Streaming, Python.
- **Outcome:** Delivered a low-latency telemetry data streaming system for F1, ensuring high accuracy in performance metrics and enabling real-time race strategy decisions.

Automated LinkedIn and Glassdoor Data Extraction Engine | *Personal Project* | *Github*
- **Description:** Automated data scraping from Glassdoor and LinkedIn using Selenium for comprehensive job market research.
- **Tech Stack:** Python, Selenium, dotenv, Colorama.
- **Outcome:** Efficiently collected and stored over 10,000 data points, aiding in business intelligence and market analysis.

Intelligent Content-Based Course Recommendation Engine | *Team-size: 2* | *Github*
- **Description:** Created a content-based recommendation system for Coursera courses, utilizing advanced text processing techniques.
- **Tech Stack:** Jupyter Notebook, Python, Pandas, scikit-learn.
- **Outcome:** Analyzed over 5,000 course descriptions, delivering highly relevant course suggestions and improving user experience.

SKILLS

Programming Languages: C/C++, Python, Java, SQL, R
Machine Learning: Scikit-learn, Pandas, NumPy, Mediapipe
Big data and Cloud: Hadoop, Kafka, Spark, PySpark, Spark SQL, Docker, Kubernetes, Devops
Web Technology: HTML, CSS, React, JavaScript, NodeJs, ExpressJs, NextJs, Tailwind CSS, Typescipt, Spring boot
Soft Skills: Teamwork, Communication, Collaboration

ACHIEVEMENTS AND CERTIFICATIONS

- Secured Top 10 position in the Google Developer Student Clubs (GDSC) Hackathon, showcasing innovative problem-solving skills and technical prowess.
- Achieved Top 10 ranking in Nexus hackathon, receiving a collaboration offer from Brillio for exceptional project development and teamwork.