

Gaurav Prasad

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Skills

- **Programming Languages:** C, C++, Python, Golang, HTML, CSS, SQL, PySpark
- **Libraries & Frameworks:** OpenCV, Pytorch, TensorFlow, RAG
- **Tools:** GIT, TablePlus, Postman, Docker, VsCode
- **Platforms:** MacOS, Windows, GCP, Google Colab
- **Soft Skills:** Leadership, Teamwork, Punctuality, Problem Solving, Adaptation, Persuasion
- **Languages:** English, Hindi, Sanskrit

Education

- University of Waterloo** **Waterloo, Canada** **Sept 2023 - Jan 2025**
Master of Engineering in Electrical and Computer Engineering(ECE): CGPA:- 84.6/100
• Courses: Algorithm Design and Analysis(ECE606), Methods and Tools for Software Engineering(ECE650), Tools of Intelligent Systems Design(ECE657), Data and Knowledge Modeling and Analysis(ECE657A)
- SRM University** **Chennai, India** **Jun 2018 – May 2022**
Bachelor of Technology in Computer Science Engineering(CSE): CGPA:- 9.56/10
• Courses: Database Management Systems, Operating Systems, Computer Networks, Object Oriented Programming.

Work Experience

- Machine Learning Engineer** **Arista Networks Remote, Canada** **Jan 2024 – Jul 2024**
• Designed and lead the Rule Engine based software for monitoring 20 Bug's in BUG Prediction using G-Rules in Golang.
• Reinforce and refactor a new cluster algorithm to group similar Bug's based on user based input and predict its result.
- Application Development Engineer** **Arista Networks Bengaluru, India** **Jul 2022 – Aug 2023**
• Improved the STA suite, ensuring high usability, quality, and speedy deployments, with 80% positive client feedback.
• Developed backend features using Golang and GraphQL, enhancing system performance.
- Data Engineer Intern** **LumiQ Noida, India** **Jan 2022 – Jul 2022**
• Analyzed customer data and created Datamarts to enhance user experience in Fintech. Prepared 2 reports and 3 presentations for stakeholders, driving data-driven decisions.
• Used SQL and PySpark for data extraction and cleaning, and Power BI for visual analysis.
- Machine Learning Research Intern** **Samsung Prism Remote, India** **Apr 2021 – Oct 2021**
• Developed data models to support text readability improvements for dyslexic individuals, achieving a 60% increase in model efficiency.
• Implemented ML algorithms in Python to improve text rotation and OCR accuracy.

Projects

- Pedestrian Detection using Faster R-CNN** **Feb 2024 – Apr 2024**
• Designed a pedestrian detection model using Faster R-CNN on a pretrained ResNet50 model with Python.
- Install Security Cameras at Traffic Intersections** **Oct 2023 – Dec 2023**
• Developed Vertex Cover algorithms to optimize security camera placement at traffic intersections, utilizing polynomial time reduction and approximation techniques for efficient coverage using C++.
- E-Haus** **Mar 2021 - Mar 2021**
• Developed an e-commerce platform connecting international students with homeowners and roommates using JavaScript, HTML, CSS, Bootstrap and Heroku.

Volunteer Experience

- Technical Campus Ambassador** **SmartKnower Remote, India** **Aug 2020 – Feb 2021**
Corporate Associate Head **Coding Ninjas Chennai, India** **Jul 2019 – Aug 2020**
Technical Committee Member **CSE Association Chennai, India** **Mar 2019 – Jan 2021**

Certifications

- Microsoft Azure Data Fundamentals (03/2021)
- HackerRank C Advanced Level (09/2020)