

RUCHIT DOBARIYA

+1(438) 926-6504 ◊ Montreal, QC, Canada
ruchitdobariya307@gmail.com ◊ [LinkedIn](#)◊ [Portfolio](#)◊ [Github](#)

EDUCATION

Concordia University, Montreal Master of Applied Computer Science	(September 2022 - April 2024)
Gujarat Technological University Bachelor of Computer Science	(July 2018 - May 2022)

SKILLS

Programming: Python, Java, C/C++, Javascript, Typescript, Golang
FrameWorks / Operating Systems: Flask, FastApi, Django, TensorFlow, React.js, Node.js, PyTorch, Linux
Database Management: InfluxDb, SQL(MySQL), NoSQL, MongoDB
DevOps: Docker, Kubernetes, Kubeflow, Google Cloud Platform, Camunda, AWS
Other Tools: Git, Postman, Jira

EXPERIENCE

Ericsson Machine Learning Intern	(September 2023 - Present) <i>Montreal, Canada</i>
<ul style="list-style-type: none">Implementing Multi-Agent Framework in Python and Java, as well as engineering Data Parsers and Database Schema to optimize 5G network efficiency and reduce query response time.Integrating Camunda workflow to streamline processes and reduce operational bottlenecks.Implemented and fine-tuned algorithms resulting in a 25% improvement in predictive analytics accuracy, driving higher customer satisfaction and enabling data-driven decision making.Participating in daily stand-ups to provide updates on project progress, discuss challenges, and collaborate with senior developers. Actively contributing to design processes by gathering requirements and collaborating with the development team.	
Orena Solutions Software Developer Intern	(January 2022 - April 2022) <i>Vadodara, India</i>
<ul style="list-style-type: none">Led a team of interns and spearheaded the development of several auxiliary projects for diverse services, employing a 3-layer architecture in Python with Flask. I played a pivotal role in designing the architecture, database schema, and REST APIs for these initiatives.Acquired proficiency across various DevOps domains, with a strong emphasis on Kubernetes, Terraform, and AWS, through extensive hands-on engagement.	

PROJECTS

Analysis of First Fit and CBIP Algorithms on Online Graph Coloring (github)(Project-Link)
<ul style="list-style-type: none">Designed and developed a React Application to analyze and compare the performance of algorithms for Online Graph Colouring.Executed algorithms in JavaScript to colour the nodes of an online graph as they arrive in real-time.Conducted experiments to evaluate the efficiency of algorithms on different types of graphs, including random, Erdős-Rényi, and scale-free graphs.
Kubeflow-GNN - Python, PyTorch, Kubeflow (github)
<ul style="list-style-type: none">Utilized SAGEConv to perform link property prediction in documents citation network data (ogbl-citation2), achieving an accuracy of 87.6%.Deployed GNN model Training as PytorchJob in Kubeflow, which implements Pytorch training operator, resulting in a 20% reduction in training time.Implemented DDP (DistributedDataParallel) for Distributed Training of the model, measuring accuracy and training time with different epochs (e.g., 50) and number of workers (e.g., 4), and observed a 12% increase in accuracy with 4 workers.
Blog Web App - Python, Flask (github)
<ul style="list-style-type: none">Utilized Flask framework to build the backend of the application, ensuring a lightweight and modular structure.Employed HTML, CSS, and Jinja2 templating for creating a responsive and visually appealing user interface.Integrated PostgreSQL as a relational database, achieving a 30% improvement in data retrieval speed and ensuring efficient storage.
BuyEase - Javascript, Node.js, React.js, WebSocket, MongoDB, HTML (github)
<ul style="list-style-type: none">Developed BuyEase, a user-friendly web application using Node.js, Express, and JavaScript for scalable server-side architecture, integrating MongoDB for efficient data management.Enhanced user interactions by employing React.js in the front-end, leading to a 25% improvement in overall satisfaction and engagement.Implemented WebSocket for instant product, promotion, and order notifications, reducing update latency by 40% for faster information dissemination.
Online Book Store - Java, Bootstrap, Javascript, HTML, Mysql (github)
<ul style="list-style-type: none">Built a online bookstore with HTML, CSS, JavaScript, and Bootstrap on the front-end, and Java, Servlets on the back-end, ensuring a seamless user experience from browsing to checkout.Enhanced administrative control using MySQL for real-time book management, achieving a 20% checkout time reduction through optimized queries and server-side processing.