

Divya Munot

☎ (585) 537-9470

🌐 divyamunot.github.io/portfolio/

in [linkedin.com/in/divya-munot](https://www.linkedin.com/in/divya-munot)

✉ dmunot@ur.rochester.edu

EDUCATION

University of Rochester, **Master of Science**, Computer Science

Aug 2022 – May 2024

- Machine Learning, Data Mining, Deep Learning, Data Engineering, Algorithms

Pimpri Chinchwad College of Engineering, **Bachelor of Engineering**, Computer Engineering

Aug 2017 - Jun 2021

- Data Structures, Databases, Computer Organization, Object Oriented Programming
- Awarded **Best Outgoing Student** of Pimpri Chinchwad College of Engineering, 2021

CGPA – 9.31/10

SKILLS

Programming languages – Python, C++, HTML, PHP, XML | **Databases**: SQL

Technologies and Tools: GIT, Kafka, Visual Studio Code, Apache Databricks

Soft Skills: Problem-solving, Communication, Strategic Thinking, Innovation

EXPERIENCE

Garcea Lab URMC | **Research Assistant** | Rochester, NY

Sept 2023 - Present

- Responsible for creating a database of approximately 50 neuropsychological tests collected from approximately 100 pre-operative brain tumor patients and 50 ischemic stroke patients.
- Used Python to automate the generation of patient data summaries from Excel spreadsheets, streamlining data analysis processes and enhancing efficiency.

Office of Registrar | **Technical Assistant** | Rochester, NY

Feb 2023 – Present

- Utilized PHP and SQL to migrate the Office of Registrar forms, enhancing security and user access management.
- Worked with the design team to redesign the user interface of the forms, utilizing HTML to improve the consumer experience and accessibility.
- Created detailed UML diagrams to comprehensively analyze and optimize the workflow of forms within the OnBase Studio platform, resulting in increased efficiency and streamlined processes.

TIAA GBS India | **Technology Trainee** | Pune, India

Jul 2021 – Jul 2022

- Worked on OIPA, which includes XML configuration of OIPA Components, designing Stored Procedures and SQL for various purposes like QDRO (Qualified Domestic Relations Order) and Death Servicing.
- Assisted in designing and implementing software solutions for the Immediate Annuity project using agile software development methodologies while adhering to best practices and coding standards.
- Familiarized oneself with version control systems like Git and actively contributed to code repositories.
- Received PT&RST On-Spot award at TIAA GBS for outstanding performance.

PROJECTS

City Bike Tracking System | University of Rochester

Jan 2023 - May 2023

- Developed and deployed a comprehensive end-to-end data-intensive application on the Databricks platform, enabling real-time tracking of bike inventory and available docks at city bike stations.
- Designed and implemented Spark streaming ETL pipelines for historical and real-time data ingestion.
- Conducted extensive Exploratory Data Analysis (EDA) to gain valuable insights into bike station utilization patterns and user behavior.
- Built and optimized Prophet forecasting models, registered them in Databricks, stored artifacts in MLflow, and improved accuracy with monitoring to 89%.

Foreign Object Detection using YOLO | University of Rochester

Sept 2022 - Dec 2022

- Trained YOLO v5 and v6 on frontal Chest X-ray datasets obtained from 300 township hospitals in China.
- Preprocessed the dataset by eliminating polygonal annotations and converting those to YOLO recognizable annotations.
- Compared both the versions' performances and observed that v5 performed better than v6, in terms of accuracy and time.

Medicinal Leaves Identification | PCCOE

Jun 2020 - May 2021

- Curated a comprehensive dataset comprising 18 different types of leaves, each containing 200 photos.
- Collaborated with a team of computer engineers to design a CNN (Convolutional Neural Network) architecture with multiple convolutional and pooling layers, optimizing the feature extraction.
- Achieved an exceptional accuracy rate of 93%, demonstrating the model's efficacy in identifying medicinal leaves.
- Patented this system in India, Application Number: 202121006780, Published Date: Mar 2021