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Sameer Narendran

GitHub: sameer-n012
LinkedIn: sameer-narendran
Porfolio: sameer-n012.github.io/portfolio

Education

Bachelor of Science in Computer Science, *University of Wisconsin Madison, WI* Sep 2021 — Present
GPA: 3.96/4.00, Honors Program, Dean's List, Expected Graduation: Jun 2025, Majoring in Computer Science, Math
Relevant Coursework: Data Structures & Algorithms, Operating Systems, Theory of Computation, Artificial Intelligence
Linear Algebra, Numerical Methods, Multi-variable Calculus, Real Analysis, Abstract Algebra, Probability

High School Diploma, *Academy for Information Technology, NJ* Sep 2017 — Jun 2021
GPA: 95.42/100, ACT Score: 36/36, National AP Scholar, High Honor Roll Student

Experience

Undergraduate Researcher **Sep 2023 — Dec 2023**
Madison Experimental Mathematics Lab *Madison, WI*

- Studied recent papers on aperiodic tilings and Heesch numbers of polyforms
- Developed software for converting polykite tiling problems into boolean satisfiability problems

Analytic Software Engineering Intern **May 2023 — Aug 2023**
Teradata Inc. *San Diego, CA*

- Designed industry-level AI feature store architecture and database schema
- Built Python SDK for programmatic management of features and retrieval of data
- Built Python REST API for feature store access through UI or 3rd-party AI applications

Data Science Engineering Intern **May 2022 — Aug 2022**
Teradata Inc. *San Diego, CA*

- Built hyper-parameter tuning framework (Grid, Random, Bayesian Search) for Teradata machine learning functions.
- Created External Stored Procedure for hyperparameter tuning on table data.
- Created method to score Teradata stored data by dynamically loading Dataiku model JARs.

Skills

Languages	Java, C, Javascript, HTML/CSS, Python, MATLAB, SQL
Tools	REST API, PyTorch, Scikit-Learn, NumPy, Pandas, Git, React/Redux, NodeJS

Projects

Car Classification Neural Network Model **Aug 2020**
NYU Tandon School of Engineering Summer Program *github.com/sameer-n012/resnet-car-classification*

- Experimented with transfer learning using 7 pre-built neural network models to classify cars from an image
- Determined the accuracy of each model with different sets of hyperparameters

Food Review Website **Dec 2021**
Personal Project *github.com/sameer-n012/food-review*

- Web application that allows users to sign up to create, search, and share reviews of restaurant menu items
- Uses JWT-based authentication for user login, modification, and deletion of their account

Facial Recognition Attendance Application **Nov 2022**
University of Wisconsin Madison *github.com/sameer-n012/cheesehacks-2022*

- Built web application using React and Flask to visually recognize students for attendance to win first place
- Used ResNet and Cosine Similarity to match student images to their official photo

Awards & Honors

CheeseHacks 2022 Winner Nov 2022
HackUC III Best Web Design Oct 2018
MathWorks Math Modeling Challenge Honorary Mention May 2021

Activities

FIRST Robotics Team 1257 Sep 2018 — Jun 2021
Built autonomous, teleoperated robot drivetrain and robot runtime dashboard
National Honor Society Sep 2020 — Jun 2021