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Sameer Narendran

GitHub: sameer-n012
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Portfolio: sameer-n012.github.io/portfolio

EDUCATION

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

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 — Present
Madison Experimental Mathematics Lab
Madison, WI

- Studied recent papers on aperiodic tilings and Heesch numbers of polyforms
- Developing 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 Summer 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 Winter 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