

# Michael Nodini

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## Skills

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**Languages:** Python, Java, Javascript, CSS, HTML, SQL, Postgres, MATLAB, R

**Software:** AWS, Cloud Computing, VisualStudio, JupyterHub, Terminal, MS Office Suite, ArcGIS, Docker

**Packages:** Sci-Kit Learn, Pandas, Numpy, Matplotlib, Seaborn, Dask, PyTorch, Apache Spark / Hadoop, StatsModel, SciPy, D3, Plotly

**Technical Skills:** Deep Learning, Machine Learning, Relational Algebra, Graph Theory, Scientific Analysis, Natural Language Processing, Data Visualization, Data Mining, Recommendation Systems, Predictive Modeling, Statistical Modeling, Distributed / Cloud Computing, Dataset Manipulation, Data Preprocessing, Storytelling through Data Visualization, Object Oriented Programming

## Education

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**University of California, San Diego**

Class of 2023

B.S. Data Science: Machine Learning / AI Specialization | Overall GPA: 3.8 | Major GPA: 3.8

**Related Coursework:** Data Management, Data Visualization, Data Analysis & Inference, Data Structures & Algorithms, Data Management, Systems for Scalable Analytics (Cloud Computing), Probabilistic Modeling & Machine Learning, Applied Graph Theory, Deep Learning, Data Science in Biomedicine, Web Mining & Recommender Systems

## Experience

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**Independent Researcher, Smarr Lab @ UCSD** | La Jolla, San Diego

June 2022 - Present

- Used 100,000 samples from Apple Watch & Oura Ring data to create time series forecasting model to predict illness with 95% accuracy.
- Optimized model training using class balancing for 20x faster convergence.
- Used confusion matrix and statistical theory to inform adjustments to increase model accuracy.

**Technical Assistant, UCSD Extension** | La Jolla, San Diego

December 2020 – Present

- Created a class registration pipeline using Google Forms, Python, and Bash scripts allowing automatic instantaneous updates rather than manual quarterly updates.
- Created explanatory visualizations using survey metrics to inform doctoral faculty.
- Setup virtual and physical workspace for faculty: Zoom, Canvas, MS Office, Classroom Support

**Shift Manager, Dairy Queen** | Montvale, New Jersey

September 2017 – August 2020

- Managed the shift schedule for 15+ employees, tracked inventory, and upkeep of machinery.

## Extracurriculars / Volunteer

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**UCSD Club Sailing Team**

Member of the UCSD Club sailing team in the Pacific Coast Collegiate Sailing Conference.

**The Himalayan Cataract Project**

Worked in a small team of students to raise \$6,000 for the Himalayan Cataract Project's trip to Ethiopia.

**Interests:** Camping, Snowboarding, Surfing, Cooking, Hiking