Yusuf Morsi

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www.ymorsi.com
https://github.com/ymorsi7
Python, C++, MATLAB, JavaScript

EDUCATION

University of California, San Diego   *2024 – 2025*
- *Machine Learning and Data Science (M.S.)*

University of California, San Diego   *2020 – 2024*
- *Electrical Engineering (B.S.)*

WORK EXPERIENCE

CEO and ML Engineer, Targimo   *Fall 2023 – Present*
- Leading **B2B startup** that provides business solutions from data science insights
  o Attending meetings with **venture capital firms**
- **Managing a team of three ML engineers**, spearheading ML R&D
  o Leveraged **PyTorch** and **OpenAI** to architect a market analysis tool, decoding media to fuel **data-driven strategies**

Hardware and Data Science Intern, Cisco   *Summer 2023*
- Automated analysis process by **analyzing and clustering** device failure data with **H2O.ai** and **Python**, significantly reducing troubleshooting time and operational costs
- To lower carbon usage at Cisco, I developed a **dashboard** and **presented it live to the entire company** on **CiscoTV**

Software Engineer Intern, Southwest Airlines   *Spring 2023*
- Conducted **anomaly detection** to detect unusual traffic volume, suspicious IPs, and network latency.
- **Automated GTM workflows** for **Ansible** Tower through **full-stack** development, achieving streamlined workflows
- On intern team tasked with saving $24M annually by launching gift card functionality on SWA's site rather than third parties
  o Presented to **Chief Information Officer** (Lauren Woods)

Software Engineer Intern, CarsXE API   *Summer 2022 – Spring 2023*
- Assisted in full-stack web development; developed **pip package** for company API
- Led intern license plate recognition software implementation

Undergraduate Researcher, UC San Diego
- **Mobile Systems Design Lab** (Dr. Sujit Dey)   *Summer 2022*
  o Assisted in the full-stack development of iOS and Android apps that enable engagement between ML blood pressure platform, patients, and physicians
- **DigiHealth Lab** (Dr. Edward Wang)   *Spring 2021 – Spring 2022*
  o Developed I2C communication code with C++, utilized Eagle to design circuit schematics, and soldered in a lab setting

PROJECTS

PCA for Image Classification   *Spring 2023*
- Authored **MATLAB** algorithm implementing **PCA for image classification**, improving accuracy through bespoke dimensionality reduction and optimal subspace selection strategies

Hate Speech NLP Analysis   *Winter 2022*
- Tackled online hate speech by utilizing NLP methods to detect and analyze hate speech on a new streaming platform
  o Wrote **Python** code for **TF-IDF vectorization** and a **decision tree** hate speech detection model

LEADERSHIP / AWARDS

- **2nd Place**, *UCSD HARD Hack (2023)*
- **Scholarships for Electrical Engineering**, *ACE Mentor Program* (2019, 2020, 2023)
- **Technical Chair,** *IEEE UCSD* (Oct. 2022 – June 2023)
  ○ Responsible for organizing technical workshops and events for the second-largest IEEE student branch in the US
- **CS Team Lead,** *CS Foreach* (Oct. 2021 – Feb. 2023)
  ○ Led other UCSD students to teach high school students how to develop **full-stack websites**
- **Mentor,** *UCSD ECE Undergrad Student Council* (Oct. 2021 – Dec. 2022)
- **CSE Outreach,** *Eta Kappa Nu (HKN)* (Mar. 2022 – Dec. 2022)
  ○ Visited inner-city San Diego schools to teach K-12 students computer science and engineering fundamentals
- **Winner of Civic Engagement Category,** *SD Hacks* (2022)
- **Student Spotlight**, *UCSD Extended Studies* (2020)

MORE INFORMATION

- **Languages:** English and Arabic
- Experienced with **ML**, **APIs**, **project management**, **web/app development**, MATLAB, LTspice, Eagle, Vivado
- **UC San Diego certifications** in **Business Management**, **Front-End Dev**, and **iOS Programming**