

# MRUGANK PEDNEKAR

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## Education

### MIT Sloan School of Management

September 2025–Present

Master of Business Analytics (MBAn '26)

### University of Wisconsin-Madison

September 2021–May 2025

Bachelor of Science in Computer Engineering, Mathematics, Data Science, Computer Science. Entrepreneurship Minor

GPA: 3.9/4.0, Dean's List: 7/7 Semesters

- Certificate in Project Management @ SuccessWorks UW-Madison
  - Activities: Board @ Wisconsin Venture Club, Events Lead @ Transcend UW, Firmware @ Wisconsin Racing FSAE, Badger Blockchain, Cardinal Trading, Campus Ambassador @ Perplexity
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## Experience

Business Analyst @ Infinite Computer Solutions, TX

July 2024–August 2024

- Utilizing SQL and python to extract and analyze data from various databases to support project needs and client requirements. Working with clients at Fiserv to gather project artifacts and configuration requirements.
- Planning, coordinating projects and partnering with all key business stakeholders to ensure successful completion.
- Developing and maintaining dashboards and reports to provide actionable insights and track key performance indicators (KPIs). Used ServiceNow, Client360, Appian in workflows.

Peer Mentor (CS354 Machine Org. & Prog.) @ UW-Madison CS Department

August 2023–February 2024

- Held Office Hours and taught students about x86 computer architecture, C/C++ programming and assembly language. Guided ~33 students on coding challenges involving cache, memory allocation, scheduler calls, and signal handling.
- Skills:** C/C++, Bash, Assembly, Computer Architecture, Linux, Problem Solving, Interpersonal Skills

Student Cybersecurity Help @ TOPS Lab, Madison, WI

September 2024–Present

- Developing python scripts and Qualys queries to create vulnerability scans and identifying required asset patches and fixes. Self-learning for sec+ certification. Analyzing overall system safety and ensuring policy compliance in Qualys.
- Patch management, compliance, endpoint, and security management using BigFix.

Peer Mentor Tutor @ Physics Learning Center UW-Madison

August 2023–May 2024

- Mentoring diverse groups of at most 8 undergraduate students in general physics, particularly focusing on non-engineering majors. Facilitating interactive learning sessions, adapting teaching techniques to cater to individual learning styles.
  - Developing public speaking and communication skills in a classroom setting.
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## Extracurriculars & Volunteering

Software Developer @ Cardinal Trading, WI

February 2024–Present

- Building trading infrastructure for UW-Madison's upcoming quantitative finance graduate program with Dr. Mark Fedenia and Two Sigma Ex-CRO Dr. Senthil Sundaram. Team of 8 building strategies for the 'Forward Fund' with \$1M in portfolio.
- Used Big Query, Parquet, Pandas, Cron scheduling, and python to build data engineering, transformation, validation, production engineering, and research engineering components. Working to implement portfolio optimization techniques for determining asset and model weights.
- Conducting back-tests and live trades in Quant Connect, achieved returns of 19% paper trading. Placed #1 in QC Competition's first 2 quarters.

Summer Research @ UW QUEST Lab, Madison, WI

May 2024–September 2024

- Developing an application-level quantum benchmarking suite that accurately measures upcoming quantum computing platforms. Researching quantum information through academic papers OpenQASM, Supermarq, and algorithms such as Deutsch-Jozsa, Simon's, and the Bernstein-Vazirani Problem. Testing and developing in Google Colab and IBM Qiskit.

Capstone Product Owner @ Schneider National, Madison, WI

February 2024–May 2024

- Led a development team of 4 to develop a Fitbit for truck drivers in 13 weeks. Used Jira to manage workflow, held weekly

scrum sprints, updated Kanban board, and created epics & user stories. Prototyped in Figma and interviewed truck drivers. Developed using React, integrating geolocation & maps APIs. Created an analytics dashboard for truck drivers.

**Skills:** Agile, React, API, Jira, Scrum, Kanban, Figma, User Feedback, User Testing

Product Marketing @ Leysi.com, Madison, WI

September 2022–March 2023

- Driving a seed stage fintech startup to market. Increasing downloads by 70% and onboarding the first 150+ users. Hiring social media managers, feedback loops with outsourced engineering teams, and making data-driven decisions.

**Skills:** Product Management Design, Marketing, Google Analytics, Hiring, Product-Market Fit, Slack, Feedback Loops

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## Projects

ML Journaling tool to visualize trends in emotions (2<sup>nd</sup> Place Hackathon) @ DotData UW-Madison

February 2024

- Led a team of 4 to develop on our idea of creating an AI journaling tool that helps people track personal growth using emotion as a metric. Used CNNs to analyze audio and text to predict levels across emotions over a period. Used Python and libraries like pydub to transcribe text and using classification ML models. Ranked 2/120 people.

Unravelling UFO Sightings: Applications of ML to Study Patterns & Predict Features

July 2023

- Leading a cross-functional team to analyze global UFO sightings using ML techniques (K-NN, decision trees, logistic regression, SVM). Extracting intricate patterns in locations, timings, shapes, and durations. Maximum accuracy is attained by Decision Tree model at 0.82.

**Skills:** Python, ML, Matplotlib, Scikit-Learn, Project Management, Pandas, NumPy, Data Analysis, Jupyter, Sci-kit

Prediction of S&P 500 Stocks Using AI/ML Long Short-Term Memory Networks

December 2023

- Importing, scaling, and plotting historical stock data to be analyzed. Developing LSTM models through TensorFlow and Scikit packages. Predicting closing prices for a day based on past stock movement. Achieved an overall accuracy of 0.79.

**Skills:** Python, ML, Matplotlib, Scikit-Learn, Pandas, NumPy, Data Analysis, Jupyter, Yahoo Finance API