

# NEELOFAR TAMBOLI

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## Education

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**Tufts University**, School of Engineering

Medford, MA

B.S. in Computer Science, completed pre-med courses

2021–2025

Dean's List (8x). Selected coursework: Economics 8; Algorithms; Differential Equations, Linear Algebra; Discrete Math; Probability & Statistics; Data Structures; Data Privacy & Security; Cybersecurity; Entrepreneurship for CS; Leadership: Machine Learning & Data Mining; Driving & Managing Change; Web Programming; Programming Languages; Computation Theory, Medical Tech Development; Big Data.

## Experience

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**Novaluna LLC**

Princeton, NJ

*Part-time Intern, Data Analytics & AI*

Mar 2023 – May 2025

- Streamlined month-end close, cutting cycle from hours to mins and uncovering \$75K/year in fee discrepancies.
- Developed earnings-call analytics, explaining 18% of next-day FDX return variance for portfolio decisions.
- Presented insights to stakeholders through demos and reports.

**IC Laser Eye Care**

Hamilton, NJ

*Machine Learning Researcher (Summer Intern)*

May – Aug 2023

- Developed early-detection model for strabismus (AUC 0.94) using de-identified clinical data.
- Built a HIPAA-compliant ETL workflow and documentation adopted by clinical leadership.

## Academic Projects

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**SoundSense LLC – Acoustic Analytics (Senior Capstone)**

- Built pipeline for noise classification & exposure analytics; produced a lightweight dashboard to explore patterns for community noise mapping.

**Economic Evaluation of Climate Mitigation (EC8)**

- Evaluated climate change mitigation using discounted cash flow models (Nordhaus framework), identifying a \$24T net benefit gap.
- Analyzed multi-year gasoline demand elasticity with empirical data, linking findings to policy implications for fuel taxation.

**Sentiment Analyzer using ML (CS135)**

- Implemented sentiment analysis models using scikit-learn, applying Bag-of-Words with logistic regression (AUROC 0.88) and BERT embeddings with an MLP classifier (AUROC 0.97). Conducted hyperparameter tuning, cross-validation, and error analysis on held-out test data.

**Recipe Search Web Portal (CS20)**

- Built a full-stack recipe search website that suggests meals based on fridge ingredients, featuring a responsive and well-designed user interface.

**Mobile App Development in Swift**

- Developed iOS apps in Swift/SwiftUI using Xcode and Combine, with experience in state management, networking, animations, and UI design.

## Skills

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**Analysis & Tools:** Excel, SQL, Python, Tableau, PowerPoint, Java, C++, C, Pandas, Tensor Flow, Jupyter Notebook, R, GCP, Scikit-learn, PyTorch, NumPy, Statsmodels, Hadoop, Xcode

**Domains:** Financial reporting & controls; healthcare data privacy (HIPAA)

## Leadership & Honors

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1st Place — Social Impact Track, Tufts \$100K New Ventures (2025)

Montle Prize for Entrepreneurial Achievement (\$10K grant, 2024)