

# REET YOGESH KOTHARI

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## EDUCATION

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**Master of Science in Computer Science**  
*Dartmouth College – Hanover, NH*

**September 2024 – June 2026**  
*GPA: 4.0*

**Bachelor of Science in Computer Science, Minor in Business Administration**  
*University of Washington – Seattle, WA*

**September 2020 – March 2024**  
*GPA: 3.7*

## WORK EXPERIENCE

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**Research Assistant – Large Language Models**  
*Pervasive Intelligent Systems (Persist) Lab*

**January 2025 – Present**  
*Hanover, NH*

- Leveraged chain-of-thought and multi-agent solutions to enhance detection of nuanced conflicts in health advice.
- Refined dataset and generated synthetic samples, addressing issues with data imbalance and model robustness.

**Graduate Teaching Assistant – Machine Learning**  
*Dartmouth College*

**October 2024 – Present**  
*Hanover, NH*

- Conducted weekly office hours and one-on-one session, boosting material understanding and assignment completion.
- Guided students in balancing interpretability, generalization, and data quality tradeoffs to improve model design.
- Facilitated interactive student tournaments, enhancing engagement and collaborative skills across 50+ participants.

**Data Scientist**  
*Dozee Health*

**April 2024 – August 2024**  
*Bangalore, India*

- Collaborated with subject-matter experts to develop interpretable AI models for predicting patients' AHI using BCG data.
- Optimized autocorrelation and power spectral features, improving apnea annotation reliability with a 0.6 Cohen's Kappa.
- Reduced processing errors by 15% through JJ and RR interval synchronization for BCG and PSG data alignment.

**Data Engineer Volunteer**  
*Develop For Good*

**October 2023 – February 2024**  
*Seattle, WA*

- Architected ETL pipelines to normalize database schema, reducing query complexity and improving data access by 30%.
- Built a Redshift-based data warehouse, streamlining a student reporting system to foster improved teacher-student interaction.
- Implemented data validation and cleaning procedures to ensure data integrity and cost efficiency, reducing manual effort by 50%.

**Embedded Software Intern**  
*Perasia Technologies LLC*

**April 2023 – August 2023**  
*Okemos, MI*

- Trained a neural network to classify heartbeats and detect Arrhythmias patterns, achieving 98.4% test accuracy.
- Improved R-peak detection by 10% through signal filtering techniques, enabling more precise heart rate variability analysis.
- Reduced processing latency by 20% through efficient integration of serverless architecture and data preprocessing pipelines.

## PROJECTS

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**Best Use of Data Award – NASA Space Apps Hackathon Seattle**

**Pandas, Tensorflow**

- Engineered features from time-series solar wind data to provide early geomagnetic storm warnings up to 45 minutes in advance.
- Achieved 90% precision in identifying high-impact solar wind peaks and laid the groundwork for more robust models.
- Backtested against historical solar events, reducing false negatives by 25% compared to baseline methods.

**Decoding IPO Success – Data Science Capstone**

**Scikit-Learn, Seaborn | [Link](#)**

- Ideated a 58% ROI IPO investment strategy in a simulated financial environment using micro and macroeconomic features.
- Reduced risk exposure of naïve retail investors by 87%, using a 50% confidence interval version of XGBoost models.
- Enhanced a 1005 IPO Nasdaq dataset using Yahoo Finance API and SEC filings, improving overall data quality by 12%.

## TECHNICAL SKILLS

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**Languages:** Python, Java, JavaScript, SQL, C++, R, HTML/CSS

**Analytical Tools:** Pandas, PyTorch, Hugging Face, PySpark, Scikit-Learn, Seaborn, NumPy

**Development Tools:** AWS, Kubernetes, Node.js, React, Socket.io, Github Actions

**Certifications:** IBM DevOps, Cloud, and Agile Foundations Specialization, Hugging Face NLP Course