

# REET YOGESH KOTHARI

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## EDUCATION

**Dartmouth College**  
*Master of Science in Computer Science*

**Hanover, NH**  
*June 2026*

**University of Washington**  
*Bachelor of Science in Computer Science*

**Seattle, WA**  
*March 2024*

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## WORK EXPERIENCE

**Data Scientist**  
*Dozee Health*

**Bangalore, India**  
*April 2024– Present*

- Developed an algorithm to annotate apnea events and record a patient's AHI index from BCG data, achieving up to 85% accuracy.
- Calibrated time-domain and power spectral features to achieve a strong Cohen's Kappa of 0.6 for apnea events.
- Optimized BCG and polysomnography data synchronization using JJ and RR interval alignment for production deployment.

**Data Engineer Volunteer**  
*Develop for Good*

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

- Architected ETL pipelines to normalize database schema, expediting access to strategic data by approximately 30% fewer queries.
- Established an efficient student reporting system through a Redshift data warehouse, enhancing teacher-student interaction.

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

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

- Trained an ECG heartbeat classifier for Arrhythmia detection using a Neural Network, achieving 99.4% test accuracy.
  - Improved R-peak detection by 10% through signal filters and performed heart rate variability analysis.
  - Streamlined development by implementing a FastAPI on AWS Lambda to query data from the S3 buckets and DynamoDB.
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## AWARDS AND PROJECTS

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

*Pandas, TensorFlow*

- Interpreted DSCOVR's magnetic flux data to identify anomalies in solar wind patterns and predict future geomagnetic storms.
- Achieved 90% accuracy through a self-supervised model that laid the groundwork for more robust models.

**Code Racer**

*MongoDB, Socket.io* | [Link](#)

- Created a multiplayer type racing platform that supports simultaneous gameplay for multiple parties through socket connections.
- Enacted Java prompts to improve syntactic knowledge, typing speed, and styling etiquette.

**Data Science Capstone Report: Decoding IPO Success**

*Pandas, Scikit-learn* | [Link](#)

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

**Racial Justice**

*Dplyr, Shiny.R, GGPlot* | [Link](#)

- Highlighted the overwhelming 33% and 42% fatal police shootings on nonbelligerent Black and Hispanic suspects since 2015.
  - Leveraged COMPAS Recidivism Algorithm and juvenile arrests dataset to recognize patterns of racial injustice.
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## TECHNICAL SKILLS

**Language:** Python, Java, JavaScript, C++, SQL, R

**Software Development:** AWS, Kubernetes, Node.js, React, REST, GraphQL, Socket.io, GitHub Actions

**Data Science:** PyTorch, Tensorflow, Hugging Face, Pandas, PySpark, Scikit-Learn, Seaborn

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