

Aidan J. Beery

Machine Learning Engineer

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Mission Statement

A Computer Science student with a passion for innovating and learning. Aiming to deliver effective, robust software solutions for client needs. Interested in deployable machine learning systems.

Education

Ph.D. in Computer Science and Artificial Intelligence September 2022 – June 2027
Oregon State University – **GPA: 3.67** Corvallis, Oregon
H.B.S. in Computer Science – Machine Learning Engineering September 2019 – August 2022
Oregon State University – **GPA: 3.81 – Magna Cum Laude** Corvallis, Oregon

Research Experience

Graduate Research Assistant – Soundbendor Lab
Smart Compost Bin for Household Food Waste Measurement May 2023 – Present

- **Advisor:** Dr. Patrick Donnelly
- Led undergraduate engineering teams in development of in-home food waste monitoring device
- Developed cloud infrastructure to support data-driven food waste analytics
- Architected IoT remote sensing device to collect data on household food waste
- Designed novel computer vision model for food compost instance segmentation

Social Media Sentiment Analysis for Music Emotion Recognition September 2019 – June 2023

- Built deep language models to predict music emotion from social media conversations
- Created musical discourse dataset, implemented in MongoDB
- Designed large embedding-based transformer models for analyzing social media sentiment

Career Experience

Graduate Teaching Assistant Corvallis, Oregon
Oregon State University September 2022 - Present

- (CS-574) Aided students with operating systems design and Linux kernel development concepts
- (ENGR-100) Guided students through exercises involving Excel, Matlab, C++, Arduino, and Python
- Assisted in weekly lab preparation and content delivery for introductory engineering courses
- **Courses:** CS-574, ENGR-100, ENGR-102, ENGR-103

Data Engineering Intern Bend, Oregon
Les Schwab Tire Centers June 2022 - September 2022

- Developed unit test framework for company-wide data warehouse to accelerate data analytics
- Automated endpoint security reporting using Snowflake and SQL
- Deployed Salesforce customer survey data integration into Snowflake data lake

Volunteer Experience

Field Technical Advisor; Mentor Bend, Oregon
Central Oregon FIRST Tech Challenge December 2018 - February 2020

- Directed field operations while providing troubleshooting to 6-8th grade robotics teams.
- Instructed middle-school students on programming fundamentals, electronics, and leadership

Conferences & Publications

ICMI Workshop on Commensality and Human-Food Interaction November 2024

"Smart Compost Bin for Measurement of Consumer Food Waste"
Signals and Communication Technology January 2024

"Learning Affective Responses to Music from Social Media Discourse"

International Conference on Natural Language and Speech Processing December 2022

"Evaluating Large-Language Models for Music Emotion Prediction from Social Media Discourse"

Skills

Programming Languages and Frameworks

Languages: Python, Java, SQL, Ruby, C, Perl6, Haskell, Rust, C++, R

Tools: Pandas, TensorFlow, PyTorch, Snowflake, AWS, Git, Linux, *LaTeX*, Rails, Flask