JOSH WINNES

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SUMMARY

Associate Data Scientist with hands-on experience in developing and deploying flexible Python applications for analyzing voice and video data using machine learning and statistical analysis techniques. Proven record in analyzing over 100K voice recordings using Librosa, Numpy, Sci-kit Learn, and TensorFlow. Possesses a strong data-driven foundation with a B.S. in Mathematics, endorsed in Data Science from Wheaton College.

EXPERIENCE

AwanTunai | *Associate Data Scientist*   **Jan 2025 - Present**
- Trained and implemented an ML pipeline in Python that uses vocal features to estimate personality traits, with an RMSE of 0.08 for use in financial risk assessment.
- Engineered a dynamic application for video-based human motion tracking, enabling analysis of movement and deeper understanding of customer activity patterns.
- Designed and implemented production-ready systems for object counting, region tracking, and structured per-frame data reporting, ensuring high-performance operational standards.

Wheaton College | *Teacher's Assistant*   **Aug 2024 - May 2025**
- Conducted weekly study sessions to clarify course concepts and improve student performance.
- Provided timely feedback on approximately 25 weekly homework assignments to enhance learning outcomes.
- Facilitated a supportive learning environment by proctoring 2 weekly retake sessions.
- Supported Calculus II, Probability Theory, and Statistics courses to reinforce foundational concepts relevant to logical and analytical problem-solving.

Christian Service Council | *Director*   **May 2024 - May 2025**
- Oversaw 18 clubs and 91 student leaders to align student-led initiatives at Wheaton College
- Developed and launched a data collection procedure to quantify the impact of student ministries across campus, leading to improved strategic planning
- Built interactive dashboard in Google Sheets for querying office personnel data to increase administrative efficiency

Skivangelism | *Founder & Director*   **Sep 2022 - May 2024**
- Initiated the launch of Wheaton College's first evangelistic ski group, developing programs for 80+ students
- Developed 6 cabinet members for leadership roles through regular meetings and mentoring
- Coordinated 5 weekly ski trips, managing logistics, finances, and student participation
- Established Wheaton's first spring break trip to Vancouver, combining community service and field work

EDUCATION

Wheaton College, Wheaton, IL   **Jan 2022 - May 2025**
B.S., Mathematics - Endorsement in Data Science and Statistics (GPA: 3.82/4.00)   *Wheaton, IL*
- **Achievements:** Magna Cum Laude
- **Coursework:** Object-Oriented Design, Mathematical Modeling, Statistics, Linear Algebra, Probability Theory, Machine Learning, Matlab, Java, R, Python

IBM Data Science Professional Certificate through Coursera   **May 2024 - Aug 2024**
- **Coursework:** Machine Learning, Data Engineering, Visualization, Big Data, Python, R, SQL, MySQL Databases, IBM Cloud

PROJECTS

Customer Flow Analysis with Ultralytics in Python | *AwanTunai*
- OpenCV, YOLOv8, Computer Vision, Object Tracking, Segmentation, Software Development

Loan Approval Prediction with Voice Features in Python | *AwanTunai*
- Voice feature analysis, RNN (accuracy = 0.80), Google Cloud Platform

Personality Trait Regression using Voice in R | *Awantunai*
- Random Forest Regressor (rmse = 0.05, rsq = 0.93), Gradient Boosting Regressor (rmse = 0.04, rsq = 0.93)

Deepfake Voice Detection in Python | *Wheaton College*
- CNN (accuracy = 0.970), RNN (accuracy = 0.990), Image Recognition, Audio Feature Extraction, Tensorflow

Website Content Classification using Neural Network in Python | *Wheaton College*
- Natural Language Processing, Multilayer Perceptron Classification, Web Scraping, Sci-kit Learn, Beautiful Soup