



Ashwin Mishra

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Education

University of California - San Diego | M.S. in Computer Science (AI/ML), *Expected: June 2023*

Youngstown State University | B.S. in Computer Science, *Summa cum laude*

Work

SenSource Inc. | Software Engineer (06/2019 - 04/2021)

- Improved the data retrieval time by nearly **30%** by optimizing queries and caching strategies.
- Reduced deployment time by transforming a monolith into several gRPC-based microservices.

Research

Eye Tracking | Collaborative Research

- Led the development of **iTrace** - a software that implicitly gathers eye gazes and maps them to screen.

Drew T. Guarnera, Corey A. Bryant, Ashwin Mishra, Jonathan I. Maletic, and Bonita Sharif. 2018. iTrace: eye tracking infrastructure for development environments. DOI: <https://doi.org/10.1145/3204493.3208343>

Speech Recognition | Capstone Research

- Developed a program that translates human speech to text using a 1D convolutional neural network.
- Implemented sequence annotation without alignment that is on par with CTC but simpler.

Textual Sentiment Analysis | Individual Research

- Implemented a model for sentiment analysis using Multinomial Naive Bayes algorithm and TF-IDF.
- Developed a Chrome extension that analyzes the sentiments behind professor reviews.

Skills

Python, JavaScript, C++, Java, Rust

Python Data Stack, TensorFlow, Keras, Tableau, Jupyter, Anaconda

MongoDB, DynamoDB, PostgreSQL