

Ziyang Zhou

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EDUCATION

XJTLU INFORMATION AND COMPUTER SCIENCE

2022-2026 | Suzhou, China

Cum. GPA: 3.7 / 4.0

EXPERIENCE

XJTLU | AUDIO PROJECT

Sep 2024 – Now | SIP, Suzhou

- Conducted in-depth research on audio signal processing techniques to study and analyze various audio characteristics with HuBERT and Librosa.
- Applied advanced methodologies including pre-trained HuBERT embeddings for accent classification, leveraging data augmentation and contrastive learning to improve model generalization.
- Implemented data augmentation techniques such as random cropping and pitch shifting to enhance model robustness. Fine-tuned hyperparameters and evaluated accuracy with F1-score, achieving a improvement on the validation set.
- Contributed to the preparation of research papers for publication and maintained comprehensive documentation of methodologies and results.

XJTLU | SYNTHETIC MUSIC DETECTION PROJECT

June 2024 – Sep 2024 | SIP, Suzhou

- Utilized Vision Transformer (ViT) models to create a system for identifying synthetic music.
- Gained and applied advanced insights in machine learning and audio analysis techniques by transforming audio into MFCCs.
- Designed and presented a project poster to effectively communicate research findings.

ACHIEVEMENTS

LANQIAO COMPETITION | JAVA PROGRAMMING NATIONAL THIRD PRIZE

June 2024 | Nanjing

- Algorithm Design and Problem Solving: Competed in a national-level algorithm competition, solving complex programming challenges using Java.

MATHEMATICAL CONTEST IN MODELING (MCM/ICM) | S PRIZE

Jan 2024

SKILLS

TECHNICAL

Programming: Python, Java, C/C++

Technologies: Git/Github, Linux, MySQL, Operating Systems

Expertise: Artificial Intelligence, Algorithms

COURSEWORK

Machine Learning, Deep Learning, Audio Signal Processing, Algorithms, Data Structures, Graphics

SCHOOL WORK

MOVIE CLUB HEAD OF MUSE DEPARTMENT

STUDENT CLUB SERVICE CENTER COUNCIL SUPPORT CENTER

LINKS

Github:// **ZiyangZhou**

LinkedIn:// **ZiyangZhou**