Yun Du

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Targeting Full-time positions starting from June 2025

Know me more from my personal website: A https://yun.yydarling.top

Skills

Programming Languages: Python, MATLAB, SQL, JavaScript, HTML5/CSS3

Frameworks & Libraries: Numpy, Pandas, MNE, Tensorflow, React, TailwindCSS, Figma

Operation System & Databases & Tools: Linux, Windows, MacOS, MySql, Tableau, Jupyter notebooks, Git

Experience

Dr.Lei's Lab, Texas A&M University | Department of Kinesiology

Jan 2025 - June 2025

Research Assistant — MATLAB, MNE-Python, Pytorch

College Station, TX

- EEG Signal Preprocessing: Conducted advanced EEG preprocessing using MATLAB (EEGLAB) and Python (MNE, NumPy), including filtering, artifact rejection, and format conversion to ensure data quality for downstream analysis
- Multimodal Neuroimaging Workflow Development: Built a structural-functional analysis pipeline by integrating FreeSurfer-based thalamic nuclei segmentation with EEG source localization, enabling volumetric quantification and brain activity mapping
- Neuro-AI Integration in Kinesiology (Core Contributor): Led the modeling direction combining EEG signals with Kinesiology tasks; designed neural network models for movement-state classification, and explored LLM-based data augmentation and label generation strategies to enhance model performance
- Scientific Collaboration and Publication: Participated in EEG data acquisition and experiment management; co-authored literature reviews and contributed to high-impact research manuscript writing, with selected work submitted for publication

AECOM | aecom.com

Aug. 2023 - Jan. 2024

Data Science Intern — Python, JavaScript, Vue, TailwindCss, Echarts, Node.js, Git

Sanford, FL

- Data Processing: Collected, cleaned, integrated, extracted, and analyzed 60,000 traffic data records using SQL and Python, covering data on vehicle and pedestrian collisions, travel times, traffic volumes, etc.
- Front-end Interface Development: Designed and developed a website dashboard with 3 main pages: the main dashboard, a signup/login page, and an error page. Implemented seamless navigation and interaction, including around 20 interactive elements such as dropdown menus, buttons, and charts
- Dynamic Data Visualization: Developed dynamic transportation data visualizations with a total of 15 charts, including heatmaps, histograms, line charts, scatter plots, maps, and combined charts, to provide comprehensive insights and facilitate effective analysis

Texas A&M Engineering Experiment Station | tees.tamu.edu

May 2022 - Dec. 2022

Student Assistant — Python, Pytorch, Machine Learning, Linux(Ubantu)

College Station, TX

- Digital Signal Dataset Preparation: Prepared a dataset of over 35,000 digital signal samples using LabelImg
- Transformer Model Optimization: Configured the environment and fine-tuned hyperparameters for model training on predicting radar spectrum occupation dataset using HPRC
- Test Accuracy Improvement: Achieved a significant 10% increase in test accuracy

Projects

Artificial Language Translator

Apr. 2022

Transformers, Tensorflow, Pandas, Numpy

Olink

• Designed and trained an AI translation model using multiple Transformers, improving prediction accuracy by 15%. Optimized with Random Forest, achieving 80% accuracy and a 20% increase in translation speed

My Math Apps Store

Mar. 2023

Typescript, React, Nest.js, MySQL, Yarn, Cucumber, Jest, Docker, Heroku, Git

Clink

• Collaborated with a team to develop an online math textbook store, integrating payment and content access with automated testing to ensure seamless functionality

Education

Texas A&M University

Aug. 2021 - May 2024

Master of Science, Computer Engineering - Computer Science Track

College Station, TX

- Awards: GHC'23 Scholarship, Grad Pgm Fee/Schol-Fellowships, COSC Graduate Program Scholars

Zhongnan University of Economics and Law

Sep. 2016 - June 2020

Wuhan, China

Bachelor of Management Science, Project Cost & Accounting - Awards: National Second Level Scholars, Sports Scholarships