Andrina Zhang

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Portfolio: https://andrinazxx.github.io/

EDUCATION

University of California – San Diego (with B.S. / B.A. double majors)   *September 2020 – Expected June 2024*
Bachelor of Science in <u>Machine Learning & Neural Computation</u>   Overall GPA: 3.87
Bachelor of Arts in <u>Interdisciplinary Computing and the Arts (Computer Music & Music Technology)</u>   Major GPA: 4.0
Minor in <u>Computer Science & Engineering</u>

EXPERIENCE

Data Analyst and Market Researcher – LIMBER Prosthetics and Orthotics, San Diego, CA   *July 2023 – Present*
- Introducing innovative solutions to the companies to international markets in Mexico, India, and Brazil.
- Analyzing different countries to match their consumer market, competitive landscape, and regulatory environment in detail.
- Headed the team on data analysis with proficient programming and research analysis skills.

Software Development Engineer / Project Manager – Qualcomm Institute, San Diego, CA   *June 2022 – Present*
- Implementing Fast Fourier Transform and Convolution in python and C++.
- Creating Pure Data and Max/MSP external for multi-channel Convolution streaming.
- Deploying and transforming the beamforming algorithm from MATLAB to Python and C++.
- Constructed and maintained QI Sonic Arts Official Website with CMS platform and HTML/CSS.
- Created Web scraping tools in Python with Beautiful Soup for following data collection and applied analysis.
- Generated HRTF filters with MATLAB codes and given databases.

Python Tutor / Instructional Assistant – UC San Diego   *August 2021 – March 2022*
- Prepared weekly review sessions and office hours.
- Hosted two Coding Labs and help students to debug in Python.
- Worked on and graded Coding Labs Assignments and Exams throughout the quarter.

E-Commerce Marketing (VMS) Intern – GlaxoSmithKline (GSK), Shanghai, China   *January 2021 – June 2021*
- Participated in three top-tier E-commerce holiday campaigns on the top two e-commerce platforms in China.
- Collected and analyzed data to provide consumer insights from E-commerce campaigns.
- Coordinated meeting plans, attended meetings, gathered information, and created marketing materials.

Digital Marketing Intern – Signify N. V. (Philips Lighting N.V.), Shanghai, China   *September 2020 – November 2020*
- Production management and content creation.
- Collaboration with the engineers to shoot the videos for the products.
- Production of 12 tutorial videos that are designed for customers over the globe.

PROJECT HIGHLIGHTS

12 projects on my website: https://andrinazxx.github.io/ with Python, OpenCV, PyTorch, C, Pure Data and various programming skills

Music Genre Classification implementing kNN, SVM, CNN and RNN – Team Lead, Machine Learning Engineer
- Led a team of 5, organized the meetings and frequently met the professor and the teaching assistants.
- Applied Exploratory Data Analysis and Data Visualization skills, after Collected dataset and Wrangled the data.
- Implemented the Convolutional Neural Network. Tested the algorithm and fine-tuned the hyperparameters on GPU.
- Used: **Python** (PyTorch, scikit learn, seaborn, numpy, pandas), **Leadership**, **Project Management**, **Public Speaking**

Neural Networks and SVR implementation for earthquake prediction – Team Lead, Machine Learning Engineer
- Led a team of 4, organized the meetings and frequently met the professor and edited the video for final presentation.
- Raised the research question and hypothesis; collected dataset and wrangled the data.
- Implemented the neural network model individually. Tested the algorithm and fine-tuned the hyperparameters with teammates.
- Used: **Python** (TensorFlow, geopandas, matplotlib), **Leadership**, **Project Management**, **Final Cut Pro**, **Public Speaking**

Data Analysis on relationship between Outage Duration Time in the U.S. and Factors – Project Manager, Data Analyst
- Co-Led a team of 5; managed meetings among the group and with the professor; organized presentation.
- Led the designing of Research Hypothesis, drawing Conclusion, and raising future Discussion on the report.
- Cleaned and Wrangled data Cleaning & Wrangling and contributed to Exploratory Data Analysis (EDA).
- Used: **Python** (pandas, seaborn…), **Data Analysis**, **Data Visualization**, **Project Management**, **Public Speaking**

SKILL SET

Programming Skills   Python, Java, MATLAB, C++, C, Pure Data, Max/MSP, JSON, HTML, LaTeX, Git, JavaScript, SQL
Production   Ableton Live (Production, Mixing & mastering), Pro Tools, Final Cut Pro, Adobe Creative Suite, Figma, Canva
Soft Skills   Leadership, Critical thinking, Collaboration in teams / with team leads, Detail Oriented, Time Management

ORGANIZATIONS

- Triton NeuroTech at UCSD ECE, in **Prosthetics – Machine Learning team** [March 2023 - present]
- Project in Box at UCSD ECE, **Project committee – "Spotify Remote" project** [October 2022 – December 2022]
- Cognitive Science Student Association at UCSD, **Digital Content Production Chair** [May 2022 – June 2023]