

Ansh Mujral

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EDUCATION

University of California, San Diego

Fall 2022 - Present (Expected: March 2025)

B.S. Data Science, pursuing M.S. Data Science

GPA: 3.81/4

Relevant Coursework: Data Structures and Algorithms, Theoretical Foundations of Data Science, Intro to Data Management, Systems of Scalable Analytics, Intro to Data Visualization, Probabilistic Modeling and Machine Learning, Representation Learning, Linear Algebra/Calculus, Exploratory Data Analysis for Causal Inference, Recommender Systems and Data Mining

SKILLS

Python, Java, SQL, PostgreSQL, JavaScript, R, Apache Spark, Pandas, Scikit-Learn, NumPy, Hadoop, d3, MapReduce, Git, AWS, MATLAB, A/B Testing, Data Analytics/Modeling, ETL Processes, NLP, Supervised Learning, PyTorch, PySpark

PROFESSIONAL EXPERIENCE

Test-Time Adaptation and Optimization | Data Science Researcher

July 2024 - Present

- Addressed ML challenges under distribution shifts by implementing adaptive models, improving system reliability
- Leveraged **optimization techniques to speed up model adaptation** to new domains using test-time adaptation
- Enhanced model accuracy, from **reproducing algorithms to designing new methods** with **Professor Jun-Kun Wang**
- **Technologies Used:** Python, PyTorch, Pandas, DSMLP

Vigyanix Inc. | Data Science Intern

June 2024 - Aug 2024

- Architected and deployed **data models and visualizations** for user interactions, **boosting user retention by 20%**
- Conducted **data analysis** for business insights, **improving operational efficiency by 15%**
- Ensured data quality and integrity for allocated areas, **reducing data-related issues by 10%**
- **Technologies Used:** Python, SQL, Pandas, Apache Spark, HTML, R

Little Tots Family Daycare | Website Director

June 2023 - Dec 2023

- Developed and managed a **dynamic website** for a local daycare that **enhanced parent communication/engagement by 25%**
- Integrated essential features like dates, messages, contacts, and mission statements
- **Technologies Used:** HTML, CSS, JavaScript, Bootstrap, Svelte

PROJECTS

Valorant Exploratory Data Analysis

Jan 2024 - Apr 2024

- Utilized **ETL processes** to extract, transform, and load Valorant tournament data, assessing skill gaps between regions
- Deployed machine learning models for **multiclass classification to predict regional performance** based on team data
- **Performed A/B testing and hypothesis testing (ANOVA)** to validate findings
- **Technologies Used:** Matplotlib, NumPy, Pandas, Python, scikit-learn, Scipy, Seaborn

Food Recipes and Rating Prediction and Categorization Model

Sept 2023 - Dec 2023

- Implemented **ETL pipelines** to process and analyze large datasets of food recipes and ratings.
- Developed machine learning models to **predict and categorize recipe ratings, achieving an 80% accuracy rate.**
- Conducted **data cleaning, exploratory data analysis**, and implemented missingness tests.
- **Technologies Used:** Python, Pandas, Plotly, NumPy, scikit-learn

LEADERSHIP & EXTRACURRICULARS

Boy Scouts of America | Eagle Scout, Patrol Leader, Member

Aug 2015 - Aug 2022

- Earned the rank of Eagle Scout, and led patrol meetings and campouts, enhancing leadership skills and team collaboration

WHS DECA | President, Website Director, Member

Sept 2018 - June 2022

- Developed the WHS DECA website, **boosting user engagement by 35%**
- Served as President, overseeing chapter activities and strategic initiatives, and increased membership by 20%

AWARDS & INTERESTS

Awards: Provost Honors (Dean's List), Eagle Scout, CIF Scholar Athlete, Second Team All MVAL (Varsity Basketball)

Interests: Weight Lifting, Basketball, Baseball, Football, Videogames, Piano, Rap/Hip-Hop Music, Stock Market, Poetry

Last Updated: December 2024