

Avina Bansal

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EDUCATION

Washington University in St. Louis (WashU), St. Louis, MO
McKelvey School of Engineering: *Bachelor of Science in Computer Science*
Double Majors: Computer Science and Psychological Brain Sciences

May 2025
GPA: 3.3

PROFESSIONAL EXPERIENCE

Oak Street Health

June – August 2024

Data Science: Clinical Risk Modeling Intern

Remote

- Analyzed effects of low data availability on clinical risk model performance and proposed a new solution to handle predictions for new patients; to be implemented in Q3 2024
- Collaborated with the team to engineer features and build, train, and evaluate a new XGBoost model predicting uncontrolled diabetes
- Communicated complex data findings through engaging presentations, tailoring content to diverse audiences and ensuring actionable insights for stakeholders

Applied Behavior Services, LLC

September – December 2022

Behavior Therapist

St. Louis, MO

- Provided 1:1 individualized Applied Behavior Analysis (ABA) therapy in the early childhood classroom of 10 students
- Implemented programs to reduce harmful behaviors and teach clients various social, cognitive, academic, and functional living skills
- Collected behavioral data to track progress and consult with Board Certified Behavior Analysts (BCBAs) to adjust therapy plans

Precision AQ (formerly Precision Value & Health)

June – August 2022

Integrated Sales and Marketing Intern

Remote

- Created and edited promotional videos for LinkedIn, leveraging FinalCut for post-production and Motion for custom template design
- Collaborated with the ISM team to research competitive intelligence and collect value-based content to maximize marketing impact

RELEVANT COURSEWORK AND CERTIFICATIONS

UC Davis – SQL for Data Science Certificate:

- SQL commands and queries to filter, sort, and manipulate data, integrating and formatting data for analysis

Data Science:

- Developed practical skills in machine learning, focusing on supervised and unsupervised learning techniques, with key concepts like feature engineering and data visualization

Data Science for Complex Networks:

- Leveraged graph theory to model complex networks in several real-world contexts, and build network analysis skills including quantifying structures, identifying communities, and applying algorithms to assess network robustness

Data Manipulation and Management (in progress):

- Concepts and approaches of data acquisition including data shaping and transformation, information extraction and integration, data reduction and compression, and data cleaning

Computational Cognitive Science:

- Simulated cognitive processes through model fitting and comparison, reinforcement learning, neural networks, and Bayesian modeling

Google – UX Design Certificate (in progress):

- UX Design Foundations, UX Design Process, Wireframes and Lo-Fi Prototypes, UX Research and Tests, Hi-Fi Prototypes in Figma, Dynamic UI for Websites, UX Design for Social Good

LEADERSHIP AND EXTRACURRICULARS

PL4Y – K-Pop Dance (WashU Student Organization)

August 2020 – Present

President, Videographer, and Performance Team

- Producing and performing in dance showcases with audiences of 600+, music videos, and diversity and inclusion panels
- Managing an executive board of 20 people to organize all club events, communication, promotion, and videography activities

InSite – UI/UX and App Development (WashU Student Organization)

September 2023 – May 2024

Health App Project

- Developing a health app that consolidates all health resources available to the WashU student community using Figma and Adalo

Creative Portfolio – <https://wustl-cse204a-f12024-2.github.io/final-project-avinab20/>

2018 – Present

Artwork, UX design, video editing, dance, and Etsy business

- Building an evolving portfolio showcasing my design and videography skills, creativity, and passion for the arts

SKILLS

- Programming Languages:** Proficient in Python, C++/C, and Java; experience with SQL, HTML/CSS, and Javascript
- Data Tools:** XGBoost, NetworkX, PySpark, Pandas, Numpy, Scikit-Learn, Matplotlib, Seaborn, JSON
- Development Tools:** GitHub, Azure Databricks, Jupyter Notebook, PyCharm, Clion, Eclipse, Figma, FinalCut, Motion, ProCreate
- Languages:** Fluent in English & Hindi; proficient in Spanish