

Avina Bansal

a.bansal@wustl.edu | 972-800-3827 | [linkedin.com/in/avina-bansal](https://www.linkedin.com/in/avina-bansal) | <https://github.com/avinab20> | US Citizen

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 Engineering (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