Khushi Raghuvanshi

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Education

University of California San Diego — Graduated: Jun 2025
Bachelor of Science in Cognitive Science with a Specialization in Machine Learning and Neural Computation
Minor: Data Science

Work Experience

Research Data Analyst, UC San Diego Health CHEAR — Apr 2024 – Jun 2025
- Directed data collection for **100+ participants** across **3 research phases**, achieving **100% adherence** to timelines and quality standards.
- Cleaned and analyzed **10K+ records** of sensitive health data (eye-tracking, surveys, medical vitals) using Pandas and NumPy, improving dataset reliability by **15%** for longitudinal eating disorder studies, leading to more accurate study results and faster data analysis.
- Generated **50+ detailed cohort reports** from patient data, uncovering **5 key behavioral** and **3 physiological trends**, supporting researchers in study interpretation and clinical recommendations.

Data Analyst Intern, Infosys — Aug 2024 – Sep 2024
- Examined **100K+ customer reviews** obtained via Python web scraping (requests, BeautifulSoup) to evaluate new service performance, identifying behavioral trends that informed product and data strategy across AI & Automation initiatives.
- Designed and executed A/B tests on **2 new service features**, to assess service impact and adoption, generating recommendations that increased adoption rates by **12%**
- **Built 5+** Tableau dashboards and conducted EDA on 50K+ user adoption records, enabling stakeholders to identify 2 underperforming features, reducing churn and saving an estimated **$50K annually**.

Instructional Apprenticeship (Python Course), UC San Diego — Sep 2023 – Jan 2024
- Facilitated weekly discussion sessions and **3+ hours of office hours support** to **300+ students**, boosting comprehension scores by **25%** in end-of-quarter course evaluations.
- Graded **100+ coding assignments/projects** using a detailed rubric, ensuring fairness, consistency, and constructive feedback for skill improvement.

Recent Projects

Formula 1 Circuit Analysis Dashboard [↗]
- Developed an interactive Tableau dashboard mapping Formula 1 race tracks using custom GeoJSON data; selecting a track reveals track stats (most wins, podiums, fastest laps), enabling fans and analysts to explore track layouts and making global racing history more accessible.

Spotify Recommender System [↗]
- Engineered an interactive music recommendation system using K-means clustering on audio features with a real-time ipywidgets interface, helping users discover niche songs tailored to their preferences for a more engaging music experience.

Power Outage Duration Prediction [↗]
- Analyzed major U.S. power outage data and architected a Random Forest classifier using scikit-learn to predict outage durations using climate-based features, improving accuracy from 49% to 67% through feature engineering and hyperparameter tuning.

Skills

Programming: Python, SQL (MySQL, PostgreSQL), JavaScript, HTML/CSS, Java

Tools: Tableau, Jupyter, VSCode, Excel, Git, D3.js, Streamlit, Google Suite, REST APIs

Data & ML: Scikit-learn, Pandas, NumPy, TensorFlow, SciPy, PyTorch, Data Visualization & Storytelling, Predictive Modeling, Machine Learning (Supervised/Unsupervised), A/B Testing, Data Wrangling & Cleaning, Web Scraping

Certifications

Google Analytics Certification, Google [↗] — 2025

Complete Guide to Tableau for Data Scientists, LinkedIn Learning [↗] — 2025

Data Analytics Job Simulation, Deloitte Australia [↗] — 2025

Leadership

Orientation Leader, Sixth College, UC San Diego — Apr 2022 – Sep 2023
- Guided **600+ incoming students** during orientation week, coordinating with **13+ departments** to ensure seamless logistics and earning a 98% satisfaction rating in post-program surveys.

Cultural Director, Sixth College Student Council, UC San Diego — Sep 2022 – May 2023
- Organized and managed logistics for large-scale events such as Lunar New Year, Holi, and Mental Health Awareness Week for **1,000+ students**, while managing a **$26k** budget using Excel to ensure cost-efficient logistics.