Jayesh Bhadane

Sunnyvale, CA **|** (860) 934-8059 **|** jayesh281998@gmail.com

[LinkedIn](#) **|** [GitHub](#) **|** [Portfolio](#)

EDUCATION

MS, Data Science | *University of Connecticut, Storrs, USA* **|** GPA: 3.78/4.0 — Aug 2023 - Dec 2024

Bachelor of Engineering, Computer Engineering | *University of Mumbai, India* | GPA: 3.0/4.0 — July 2016 – Oct 2020

EXPERIENCE

Aurora Engineering - *Data Scientist* — Aug 2024 – Present

- Apply advanced analytics to recover missing values in the MMS flight data, improving reliability for space plasma research.
- Utilized cloud environment to process large-scale MMS datasets, enabling scalable analysis and model development.
- Extracted and manipulated data from multiple CDF files to prepare structured inputs for machine learning models.
- Performed exploratory data analysis on 4D space data to uncover patterns and validate data quality for scientific use.
- Developed an algorithm to compute pitch angles, enhancing data integrity for downstream space physics research.
- Visualized telemetry and pitch angle data to support analysis, validation, and communication of research insights.

C5i - *Research and AI Team*

- ***Senior Data Scientist*** — Oct 2022 – Aug 2023
- Boosted user engagement by 22% by performing user segmentation and recommending targeted strategies for high-value customer groups.
- Validated targeted engagement strategies through A/B tests and structured experiments, increasing usage among high-value segments.
- Improved user retention and session frequency by 37% through key driver analysis of behavioral data, uncovering features that contributed most to user growth.
- Forecasted user growth using Prophet and VAR models informed by Granger causality, enabling proactive product capacity planning and helping drive quarterly revenue lift.
- Collaborated with Sales, Finance, and Product teams to align priorities and advance shared business goals.
- Defined and tracked KPIs like CPA, LTV, and conversion rates in Tableau, delivering clear insights to diverse stakeholders.

- ***Data Scientist*** — Apr 2021 – Sept 2022
- Identified campaign adoption drivers through funnel analysis, enabling optimizations that drove 100K+ additional user interactions in 3 months.
- Used factor analysis to extract latent variables and refine segmentation models, enabling more targeted marketing strategies.
- Applied CHAID modeling to clinical data to uncover drivers of CAR-T therapy uptake, supporting data-informed outreach efforts.

- ***Junior Data Scientist*** — Oct 2020 – Mar 2021
- Performed univariate and multivariate EDA to uncover trends and relationships in complex datasets using statistical methods and visualizations.
- Automated KPI reporting in Python, reducing data aggregation time from hours to minutes.

ACADEMIC PROJECTS

- **Regional Conversion Testing (UConn):** Designed an A/B testing framework to compare conversion rates across geospatial marketing campaigns, increasing conversion rates by 20% and driving strategic optimization for SU.
- **Capstone Project (Indeed Jobs):** Developed predictive models on ~3.5M job postings to boost apply starts by 27% and identify key predictors, enabling advertisers to refine listings and optimize ad spend.
- **AI-Powered Job & Candidate Matching | RAG Pipeline:** Built a RAG pipeline using ChromaDB with FAISS, enabling dynamic query generation and metadata-driven scoring for efficient job-candidate matching.

TECHNICAL SKILLS

- **Languages & tools**: Python, R, SQL, Azure, AWS, Tableau, PowerBI, IBM SPSS, DataBricks, PySpark, PyTorch.
- **Frameworks**: Pandas, NumPy, Matplotlib, Rshiny, Plotly, Scikit-Learn, StatsModels, XGBoost, TensorFlow, Keras.
- **Skills**: Logistic Regression, Linear Regression, Clustering, GLMs, Decision Trees, Dimensionality Reduction, Deep Learning, Hypothesis Testing, Time Series Analysis, Statistical Analysis and Models, NLP, Generative AI, A/B Testing.

ACHIEVEMENTS

- **Travelers Insurance Case Competition 2023**: Secured first place in a Kaggle competition by developing a frequency-severity model using generalized linear models to predict claim costs. Conducted risk segmentation, improving risk classification accuracy by 25% and optimizing pricing strategies.
- **Star of the Quarter:** Awarded Star of the Quarter twice at C5i for exceeding role expectations.
- **Publication**: Object Detection using Hausdorff distance [[link](#)]