BIJAL BHARADVA

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EDUCATION

San Diego State University, CA
Masters in Science - Computer Science

August 2024 – May 2026
CGPA: 3.6/4

University of Mumbai, India
Bachelor of Engineering - Computer Engineering

August 2019 – May 2023
CGPA: 3.95/4

SKILLS

Languages: Python, SQL, R, Java, C, C++ HTML, CSS
Analysis & Visualization Tools: Power BI, Tableau, Seaborn, Matplotlib, Plotly, Pandas, Numpy, MS Excel (Pivot Tables, VLOOKUP), Google Sheets
Database Management: MySQL Workbench, PostgreSQL, BigQuery, SQLite, Oracle
Soft Skills: Collaboration, Problem-Solving, Critical Thinking, Attention to Detail, Stakeholder Communication

EXPERIENCE

Research Assistant
San Diego State University

October 2024 – December 2024
San Diego, CA

- Solved inconsistent query responses in healthcare-related NLP models by analyzing large datasets to identify patterns causing inaccuracies such as missing values and inconsistent data.
- Used Python (Pandas, NumPy) to clean and preprocess the data and calculated key metrics like error rates. Developed dashboards using Tableau to visualize performance trends and highlight areas for improvement.
- Improved query response accuracy by 11.2% through targeted data cleaning and validation workflows, increasing model reliability for real-world healthcare applications.

Data Analyst
Excellent Fashion PVT Ltd

September 2023 – July 2024
Mumbai, India

- Improved shortcomings in the sales pipeline by customizing Salesforce CRM workflows, using Excel's data visualization tools (charts and slicers) to analyze trends, and presenting insights to stakeholders, improving lead tracking and conversion rates by 20%.
- Performed inventory analysis by combining Salesforce CRM data with Excel's advanced filtering (custom autofilters and search filters) and conditional formatting (highlighting duplicates, top/bottom rules) to identify trends and optimize reorder points, reducing holding costs by 18%.
- Improved on-time delivery rates from 80% to 95% by collaborating with stakeholders across sales and logistics, tracking performance with Salesforce reports, and renegotiating vendor contracts with penalty clauses for delays.

Database Management Engineer
The Times of India-Times Strategic Solutions LTD

May 2023 – August 2023
Mumbai, India

- Addressed frequent reporting delays caused by manual data consolidation and validation across multiple sources by integrating SQL for data extraction and transformation, leading to enhanced efficiency.
- Managed large datasets using a combination of MS Excel and SQL, employing Pivot Tables to summarize sales and marketing data, identify patterns, and highlight trends across multiple regions. Utilized VLOOKUP and SQL joins to cross-reference and merge datasets, ensuring consistency and accuracy in consolidated reports.
- Enabled faster and more accurate reporting by reducing manual processing time by 30% and improving error detection efficiency by 20%, facilitating better decision-making and lead tracking.

Data Annotation Engineer
Frinks Digital Technologies Pvt. Ltd.

September 2021 – November 2021
Mumbai, India

- Resolved inaccuracies in human action detection model caused due to poor-quality datasets which previously resulted in unreliable analytics.
- Collected and annotated over 10,000 video frames from CCTV footage using LabelMe, ensuring consistency by adhering to detailed labeling guidelines. Developed Python scripts to standardize annotations and convert them into JSON format ensuring seamless integration with analytics workflows.
- Conducted verification processes to identify and correct misannotations, improving dataset accuracy by 20% which enhanced model accuracy by 8% compared to initial benchmarks.

PROJECTS

Malware Detection

October 2024 – December 2024

- Collected and analyzed a dataset of malware behavior visualizations from Kaggle and IEEE, focusing on identifying inconsistencies and gaps in the dataset using Python (Pandas).
- Performed feature engineering to extract key behavioral attributes, summarizing trends and patterns across malware categories using Python & Excel.
- Utilized SQL to segment and aggregate data by malware type, providing insights into high-risk categories and their frequency distributions.
- Used Python (Plotly) to create interactive visualizations, presenting key findings and improving decision-making for feature selection and dataset usability in model training.

Sanskrit Automatic Speech Recognition System

April 2022 – May 2023

- Evaluated the distribution of 78 hours of Sanskrit speech data to determine the amount needed for achieving high model accuracy.
- Validated and segmented raw data using MS Excel to identify missing transcriptions and categorize data by region and speaker demographics.
- Used Python (Pandas) to clean data by removing duplicates, standardizing transcription formats, and resolving missing values.
- Delivered insights on data quality and quantity, reducing preprocessing time by 15% and improving compatibility with analysis tools.

ACHIEVEMENTS

- Proposed Medical Q&A Systems research to National Science Foundation I-Corps 2024 for development in AI-driven healthcare.
- Certified **Google Data Analytics Professional Certificate** course.
- Published a Research paper in IJSREM-2023: Sanskrit Voice to Text.
- Finalist in Smart India Hackathon (SIH) – 2022.