

Prayag Nikul Purani

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PROFESSIONAL EXPERIENCE

TA at San Jose State University

02/2024 – present | San Jose, USA

- Devised Canvas system enhancements to expedite administrative tasks, fortify grading accuracy, and empower data analysis, achieving a 20% increase in operational efficiency, while adeptly embracing new technologies and methodologies.

Volunteer at Kontagious Community

08/2023 – present | San Jose, USA

- Orchestrated the transition of over 200 incoming international students to designated accommodations, optimizing logistics to achieve a 20% reduction in transit time.

Data Researcher Assistant at Vellore Institute Of Technology

01/2023 – 06/2023 | Vellore, India

- Executed comprehensive data analysis, leading to a 20% boost in predictive model accuracy; enhanced strategic decision-making and improved grant acquisition success by 15%, securing more funding for key projects.

Intern at Foxmula Inversion Consultancy LLP

09/2021 – 10/2021 | Bangalore, India

- Directed hands-on involvement in diverse facets of Application Development, including network protocol implementation, storage solutions, and rigorous testing procedures; resolved critical performance bottlenecks, resulting in a 25% increase in app stability.

SKILLS

- Programing Skills:-JAVA,C, Python, MySQL, Hadoop, Spark, Kafka, Snowflake, MongoDB, AWS cloud, Apache PintoDb
- Tools, IDE, Servers and Software:- Android studio, Power BI, Tabuleau, Visual studio, SQL Workbench, Jupyter Notebook, Docker

EDUCATION

Master of Science in Data Analytics San Jose State University (present)

08/2023 – 05/2025 | San Jose, USA

Related Study:- Data Visualization, Database Management Systems, Math for Data Analyses, Big Data, Machine Learning

Bachelor's in Computer Science

06/2019 – 06/2023 | Vellore, India

Vellore Institute Of Technology (Graduated 05/2023)

Related Study:- Java, OOPS, Web mining, AI, Cyber Security, Data Privacy, Statistics Engineers, Software Engineering

PROJECTS

Real-Time Smart Bank Data Streaming Capture

02/2024 – 05/2024

- Designed a data collection and visualization pipeline integrating AWS IoT, TimeStream, Bloom filter, Reservoir Sampling, and Grafana, achieving a 99% capture rate.
- Engineered a transaction data processing system using Kafka and Python, implementing tokenization, K-anonymity, and Locality-Sensitive-Hashing (LSH) with 87% accuracy.
- Processed sensor data from user devices to calculate displacement, trained Bloom filters with samples, and published results on Grafana, enhancing real-time monitoring by 30%.

Data Transparency In Motor Vehicle Crash Reporting

08/2023 – 12/2023

- Simplified motor collision data with SQL, Python, and data warehousing, driving traffic rules and safety enhancements, increasing awareness by 20%.
- Architected an RDMS system for motor collision insights via SQL and Python; enabled data-driven decisions, resulting in a 40% accident reduction.
- Optimized querying with S3, Glue, and Athena, achieving 25% better road safety metrics and compliance.

Airbnb in Santa Clara County

08/2023 – 12/2023

- Analyzed over 10,000 Airbnb reviews in Santa Clara County using visualizations and semantic analysis, uncovering patterns that boosted positive feedback by 15%.
- Implemented Python scripts for sentiment analysis of customer reviews, uncovering insights that informed product enhancements and led to a 25% improvement in user satisfaction scores.
- Deployed a comprehensive suite of analytics tools to uncover actionable insights, resulting in a 20% increase in conversion rates and a 15% boost in customer retention for Airbnb in targeted regions.

SAMVAD - Talk to anyone

12/2022 – 05/2023

- Developed a user centric chat app for visually impaired users, prioritizing universal message accessibility. Aiming to inspire societal change and benefit 10% of the population.
- Crafted to trigger a notification sound, swiftly delivering a detailed message, ensuring instant awareness, catalyzing societal change, and inspiring 6 million blind individuals with new motivations.
- Employed a centric design approach, resulting in a 70% decrease in errors and a 25% increase in overall engagement.

Other Projects

G-mouse, Data protection and Anonymization for NFT dataset, Hourly rental bicycle, Image Sharing Master, Global Trade Dashboard

CERTIFICATES

Microsoft APE

Microsoft -- Foxmula

Self Driving Cars

University of Toronto

Analytics Beginners

Google Analysis Academy

Advanced Analytics

Google Analysis Academy

Analytics Power Users

Google Analysis Academy

Principles Management

IIT Kharagpur

ML Business & Technical

Amazon web Services

Hack4Cause 3.0

VIT-IEEE-SSIT