GARIMA MATHUR

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Results-driven professional with a solid background in software engineering and data analytics, skilled at transforming complex datasets into strategic insights. Proven ability to develop innovative, data-driven solutions that drive business growth and operational efficiency.

- Technical Skills: Exploratory Data Analysis, Statistical Exploration, Data Visualization, A/B Testing
- Technical Tools/Languages: C++, Java, SQL, Python, Excel, C#, Ubuntu

EDUCATION

University of California, Davis

San Francisco, USA

Master of Science in Business Analytics

Aug 2024 - July 2025

Highlighted Coursework: Advance Statistics, Machine Learning, Data Management

Jodhpur, India

Bachelor of Engineering in Electronics and Computer Engineering

Aug 2017 - Aug 2021

Highlighted Coursework: Data Structure & Algorithms, Operating System, Artificial Intelligence

PRACTICUM EXPERIENCE

ExPrep San Francisco, USA Project Manager | Data Analyst

Aug 2024 - July 2025

- Crafted market research surveys for instructors and students, ensuring grading tools and dashboards were tailored to the unique needs of
- Developed SQL and Tableau dashboards to provide actionable insights for over 80k+ students from 80+ universities.
- Collaborated with stakeholders to define key performance indicators, enabling data-driven decisions and improved user engagement.
- Conducted SQL-based analysis on 10k+ grading records, identifying key performance trends that informed product enhancements.
- Conducted statistical analysis on survey data to extract key metrics such as trends and distributions, generating insightful reports including user needs and product optimization.
- Partnered with stakeholders and led a team of five to extract, transform, and visualize data for real-time insights using Tableau.

PROFESSIONAL EXPERIENCE

Accolite Digital Gurugram, India

Senior Software Engineer

Sept 2021 - July 2024

- Upgraded Mesa 3D Graphics Library from version 7.8 to 21.2.3, compiling APIs and dynamic link libraries like OpenGL, OSMesa and Glu/Glut ensuring seamless performance of existing functionality for an interactive 3D Linux database application.
- Enhanced system security by addressing a critical vulnerability through improved validation of COM (Component Object Model) calls using C# and C++, while encrypting the existing KIX file and implementing tokenization to securely handle and store sensitive information, minimizing unauthorized access risks over 40 criteria.
- Enhanced the existing User Manager GUI to support newly introduced MariaDB v10.5 privileges, improving data access management for over 2.5M users.
- Created new database scripts for software which compiled database design to support 2022 server environment with existing functionality of validation logic.
- Implemented a feature allowing users to customize history table names, aligning with their data modeling preferences in Azure SQL DB and SOL Server.
- Integrated software support for the parameter handling issue during reverse engineering of tables with more than 30 characters, ensuring accurate data mapping for table name for over 3M users.

Celebal Technology Jaipur, India

Full Stack Developer Intern

Jan 2021 - July 2021

- Developed a dynamic event management dashboard using React and CoreUI, implementing Json Web Token (JWT) authentication for secure, role-based access (admin, participant, volunteer).
 - Optimized page load times by 40% through the implementation of JWT and integration of 16 APIs for real-time data fetching and asynchronous rendering, enhancing performance and user experience.

PROJECT

Jan 2025 - Mar 2025 Ace the Space

ML Engineer

- Developed a machine learning-based resume scoring and recommendation system using BERT embeddings and Random Forest classifier, achieving approx. 50% accuracy and over 75% precision.
- Pre-processed textual data from over 10,000+ job description and over 500+ resumes by applying tokenization, lemmatization, and stopword removal to enhance feature quality for model training.
- Implemented cosine similarity for ranking job profiles, providing real-time, high-precision job recommendations based on resume content and job dataset.

FrenzyCompass Jan 2025 - Feb 2025

Data Engineer

- Developed a Python application using Google Map API and Ticketmaster API to locate restaurants, grocery and upcoming events within specified area and radius.
- Optimized API requests and data handling processes, improving system performance, and reducing search efforts by 50% leading to significant increase in user engagement.