

# KOMAL NAGARAJ KATTIGENAHALLY

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## EDUCATION

### *Master of Science in Business Analytics*

07/2024 - 12/2025

University of California San-Diego, CA

GPA: 3.6/4.0 | **Honors:** Rady Merit Scholarship worth \$15,000 | Co-director of Events & Operations at Rady Data Analytics Club

**Coursework:** SQL, Machine Learning, Data Analytics (Statistical test – T-test, Hypothesis Test, A/B testing, Confidence Intervals), Customer Analytics, Scalable Analytics (AWS, PySpark, Hadoop)

### *Bachelor of Engineering (Electronics and Communication)*

08/2017 - 08/2021

Siddaganga Institute of Technology, Tumkur, Karnataka, India

GPA: 4.0/4.0

## EXPERIENCE

### *Senior Software Engineer, Arcesium LLC, Bengaluru, India*

07/2023 - 07/2024

- Led the development on the automating core software components in **Python**, including - fetching upstream data via **REST APIs**, populating databases with pipelines, and pushing data to the UI for a **SaaS application**, delivering 70% boost in efficiency
- Developed a **Python** data generation framework for **PostgreSQL** database, while collaborating across engineering teams, and gathering requirements, leading to a 50% decrease in data generation on the development environment
- Enhanced **GitLab CI/CD** pipelines by optimizing configuration to enable deployments on dev environment

### *Software Engineer II, Zscaler Inc, Bengaluru, India*

04/2023 - 06/2023

- Pre-processed** and **analyzed** network data on Zscaler cloud via GRE, Client Connector, PAC files, and IPsec Tunnels on **Kafka** clusters using **Python** and database queries, for data-driven decision on IP address isolation
- Developed **Python** automation scripts to analyze proxy end-to-end network traffic using HTTP1.2/2.0 protocol via Zscaler cloud proxy, enhancing feature reliability by 60%
- Led a team** of interns by providing guidance on product functionality and code efficiency, significantly enhancing their learning and professional growth

### *Software Engineer, Zscaler Inc, Bengaluru, India*

04/2022 - 03/2023

- Designed automation scripts for multiple Zscaler priority features - Basic Authentication, Zscaler Speed test, web traffic **data analysis** with TLS encryption and cloud Firewall/URL filtering via Zscaler Cloud proxy, boosting product quality by 80%
- Rewarded** with Zscaler Bravo Award twice for quality delivery of products

### *Associate Software Engineer, Zscaler Inc, Bengaluru, India*

08/2021 - 03/2022

- Built automation suites for traffic forwarding with Internet Content Adaptation Protocol on Zscaler cloud proxy

## PROJECTS

### *Global Coffee Trends Dashboards, UC San Diego*

- Designed interactive **Tableau dashboards** analyzing global coffee consumption and production trends, trade flow economics, and market opportunities, delivering actionable insights for investors, traders, and consultants

### *AdsGPT Research, UC San Diego*

- Led a team of four** to analyze conversational data from WildChat, UltraChat200k, and ShareGPT datasets using **Python** with **LLama 3** model, revealing insights into how large language models influence purchase decisions
- Cleaned, preprocessed, and analyzed** complex datasets, identifying patterns related to commercial intent and business insights, and linked complex data to improve decision-making for advertising strategies

### *Amazon Fake Review Detection, UC San Diego*

- Performed **text processing, feature extraction, feature engineering** and **Exploratory Data Analysis (EDA)** on review data
- Developed ML models with **HDBSCAN**, and **K-means clustering** to identify fake reviews and evaluated the models with cluster Silhouette Score of 0.58 and cluster stability score of 0.65

## SPECIALIZED SKILLS

- Languages/Frameworks:** Python (NumPy, SciPy, Pandas, scikit-learn, ggplot), SQL, JSON, HTML, PySpark
- Tools:** JIRA, Postman, Kafka, GitLab, Docker, Tableau, Snowflake, PostgreSQL, Linux, Excel
- Others:** Problem Solving, Communication skills, Data Modeling, Data Visualization, Machine Learning, Statistical tests