**GIRISH KANJIYANI**

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# WORK EXPERIENCE

**JMA Wireless, Syracuse NY**

**Data Analysis |** Feb 2025 – May 2025

* Architected a scalable ELT pipeline using AWS Lambda, S3, and Step Functions to automate ingestion and preprocessing of 250K+ user feedback logs, reducing manual ETL time by 70%.
* Deployed a containerized NLP pipeline (BERTopic + SiEBERT + UMAP) on AWS ECS using Docker and Fargate, enabling serverless batch processing of fan sentiment data across 9 experience categories.
* Engineered a RESTful API using Flask and FastAPI to serve topic-wise sentiment insights in real time to internal dashboards, reducing report generation latency by **60%.**
* Integrated AWS Comprehend and custom Hugging Face models to cross-validate sentiment scores, improving reliability and coverage of negative/neutral edge cases by **35%.**
* Built and maintained CI/CD pipelines via GitHub Actions and AWS CodePipeline for rapid deployment and rollback of analysis jobs, improving model iteration time by **40%.**
* Refactored keyword extraction modules with hierarchical topic clustering and caching using Redis, reducing topic redundancy and runtime memory overhead by **25%.**
* Conducted post-deployment performance tuning with AWS CloudWatch, leading to a **50%** drop in cold-start latency and smoother scalability under real-time load simulations.

**Syracuse University, Syracuse NY**

**Data Analysis-Research Assistant |** March 2024 – June 2024

* Analyzed a **42.1 GB** genomic dataset, identifying key patterns and trends, leading to a **20%** improvement in research accuracy and new genetic correlations.
* Optimized data analytics with R and Seurat, improving preprocessing and cluster analysis accuracy by **30%.**
* Collaborated with three research teams to refine methodologies, improving interoperability and streamlining data integration with external research by 40%.
* Implemented validation pipelines, reducing genomic sequencing errors by **25%** and enhancing data integrity.
* Devised advanced clustering algorithms, to segment hidden structures uncovering **2** novel genomic patterns.

**WaytoWeb Pvt Ltd., Ahmedabad, Gujarat**

**SDE Intern |** January 2023 – May 2023

* ⁠Boosted database performance by **12%** with optimized SQL queries, smarter joins, and automated triggers for seamless inventory and transaction processing.
* ⁠Streamlined software releases by leading peer code reviews, cutting post-deployment bugs by **30%** and enhancing code quality, security, and maintainability.
* Enhanced team productivity by leading Agile sprint planning and technical discussions, improving task estimation accuracy by **35%** and increasing on-time feature deliveries by **40%.**
* ⁠Refactored inventory management with data-driven forecasting, reducing overstocking costs by **25%** and inventory waste by **30%** for more efficient operations.
* Designed automatic failover mechanisms, database replication, and API redundancy, minimizing system downtime by **70%** and ensuring continuous service availability with high fault tolerance.
* Developed an automated CI/CD pipeline, accelerating deployment time by **50%,** by integrating GitHub Actions, Docker, and automated testing suites for seamless software delivery.
* Architected backend query optimizations, caching mechanisms, and API request restructuring, enhancing response time by **45%**, leading to faster real-time data retrieval and improved system scalability under heavy loads.

# PROJECTS

**LeetHub-3.0 (Open-Source Project) | Contributor – Timestamp Versioning Feature -** [**LeetHub-3.0**](https://github.com/girish-kanjiyani7/LeetHub-3.0)

* Designed and implemented a timestamp-based filename versioning feature using JavaScript, Chrome Extension APIs, and GitHub OAuth2 integration, enabling **5,500**+ users to save multiple accepted submissions per problem.
* Built a persistent toggle system with a clean UI/UX experience and local state management, adopted by ~**35%** of users in the first week.
* Refactored the Git commit pipeline to improve SHA accuracy, reducing redundant uploads by **60%** and enhancing cross-language submission tracking.
* Collaborated with maintainers through **10+** review comments and **3** code iterations to ensure seamless upstream integration, improving reliability and daily workflow for 10,000+ active users.

**Gomuku-AI -** [**Gomuku-AI**](https://github.com/girish-kanjiyani7/Gomuku-AI)

* Engineered a custom neural network trained on **2,880** game states from the Gomo Cup 2022 dataset, leveraging **6**-layer CNN architecture, achieving **84%** accuracy.
* Achieved a **75%+** win rate against baseline AI by integrating adaptive strategy formulation, predictive analysis, and game state optimization.
* Conducted performance evaluation using Python-based simulations, executing over **30+** games to analyze AI efficiency and response times.

**YouTube-Focus mode -** [**YouTube-focus-mode**](https://github.com/girish-kanjiyani7/youtube-focus-mode)

* Developed a Chrome extension to enhance user productivity by eliminating distractions on YouTube, resulting in over **90%** reduction in distracting elements for every session.
* Constructed a real-time DOM manipulation system, dynamically removing distracting elements on YouTube, reducing script execution overhead by **40%** for seamless user experience.
* Deployed the extension for beta testing with **50+** users, gathering structured feedback that improved distraction-blocking efficiency by **30%**, ensured compatibility with evolving YouTube UI updates, and increased productive screen time by **15+** hours per week.

**Inventory Distribution System**

* Managed inventory transactions for an extensive catalog of over **10,000** products, ensuring accurate tracking.
* Utilized Django to implement automation for order entry and introduced real-time inventory tracking, yielding a remarkable **25%** reduction in order processing time and improving overall workflow.
* Built and deployed a reporting system using Django and SQL, enabling the generation of over **200** custom reports.
* Improved order accuracy by **30%** with improved data management and inventory tracking using SQL triggers and Django ORM, reducing stock discrepancies and order mismatches.

**Real Estate Price Prediction -** [**Real-Estate**](https://github.com/girish-kanjiyani7/realestate)

* Created predictive model for real estate prices by a dataset of **21,000+** entries using linear regression which improved price forecasting accuracy and enabled data-driven property valuation.
* Utilized Python and essential machine learning libraries (NumPy, Pandas, Matplotlib, Scikit-Learn, and Seaborn) to preprocess, visualize, and train models, resulting in enhanced insights and feature selection.
* Performed an in-depth exploration into data analysis, executing feature engineering and cross-validation strategies, ensuring impeccable model performance and increasing accuracy of regression analysis to **85%.**

# EDUCATION

**Syracuse University-** College of Engineering & Computer ScienceSyracuse, NYAugust 2023 – May 2025

Master of Science, Computer Science

**Gujarat Technological University**- Smt S.R Patel Engineering College, Unjha, GJ August 2019 - May 2023

Bachelor's Degree, Computer Engineering

**TECHNICAL SKILLS|** Programming languages: Python, C++, C, JavaScript, R. | Framework: Numpy, Pandas, Seaborn, Scikit-learn, Node-js, React-js | Database System:  Django, MySQL, MongoDB [No-SQL] | Other: MS Excel, Power Point, MATLAB, Google Collab, Jupyter-Notebook.