LAVESH RAJESH JAYKAR

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EXPERIENCE

Somniatores **Jan 2023 – Jun 2023**
Web Development Intern *Pune, India*
- Implemented responsive web design strategies using **HTML5**, **CSS3**, and media queries, alongside frameworks like **Bootstrap** and **Tailwind CSS**, to ensure consistent functionality and visual appeal across desktops, tablets, and smartphones
- Executed a range of manual test cases—both functional and non-functional—to validate the reliability and smooth performance of web applications, focusing on **browser compatibility**, **form validation**, and **responsive behavior** using browser developer tools and testing environments
- Improved website performance through **code minification**, **image compression**, and **caching strategies**, utilizing tools like **Chrome DevTools**, **PageSpeed Insights**, and efficient bundling with **Webpack**, which led to faster load times and enhanced user experience
- Wrote clean, maintainable code in **JavaScript (ES6+)**, **HTML5**, and **CSS3**, and built dynamic user interfaces with **React.js**, managing component state effectively and ensuring version control and collaboration with **Git**

iNeuron Intelligence Pvt. Ltd. **Sep 2022 – Nov 2022**
Machine Learning Intern *Bangalore, India*
- Collaborated with cross-functional teams to collect, clean, and preprocess structured data from marketing and sales pipelines using **Python**, **Pandas**, and **NumPy**, ensuring high-quality input for downstream machine learning models
- Designed and implemented exploratory data analysis (EDA) workflows with **Matplotlib** and **Seaborn** to identify business trends, anomalies, and data quality issues that influenced data-driven strategies
- Built and evaluated machine learning models using **scikit-learn**, applying classification and regression techniques; optimized hyperparameters and validated performance using **cross-validation** and metrics like **F1-score**
- Enhanced data pipelines by integrating **REST APIs** and batch processing tools using **requests**, **JSON**, and basic **SQL**, enabling automated and scalable data ingestion for model training

PROJECTS

WeatherLake: Real-Time Weather Ingestion and NLP-driven Querying
- Built a real-time weather data pipeline using **Apache Kafka** with exactly-once semantics and scalable ingestion
- Processed live streams using **Apache Spark Structured Streaming** for validation, enrichment, and aggregation
- Stored enriched data in **Apache Iceberg** on **MinIO**, supporting schema evolution and time-travel querying
- Enabled natural language querying via **Claude 3 Sonnet**, converting plain English into **Spark SQL**

Multi-Label Toxic Comment Classification
- Performed EDA with **Seaborn** and **Matplotlib** to visualize toxicity patterns and feature correlations
- Cleaned and preprocessed text using **NLTK** and **SpaCy** for tokenization, lemmatization, and normalization
- Trained a parallel-channel neural model combining **CNN** and **GRU** for multi-label classification
- Enhanced semantic understanding using **GloVe** embeddings and evaluated with **ROC-AUC** and accuracy metrics

EDUCATION

Syracuse University **Aug 2023 – May 2025**
Master of Science in Computer Science *Syracuse, NY, USA*

JSPMs Rajarshi Shahu College of Engineering **Aug 2019 – Jun 2023**
Bachelor's in Computer Engineering *Pune, MH, India*

SKILLS

Programming Languages and Data Visualization : Python, SQL, JavaScript, C++, C
Cloud and ETL : Docker, Kubernetes, Kafka, MongoDB, AWS, Google Workspace
Libraries : Scikit-Learn, Tensorflow, Keras, PyTorch, Plotly, Streamlit, Statsmodels, Spacy, SciPy
Modeling : Regression, Classification, Clustering, Anomaly Detection, NLP, Deep Learning
Web Technologies : React, HTML, CSS

ACCOMPLISHMENTS

- **CNY Hackathon (Sponsored by Amazon)**: Achieved 2nd place in a competitive hackathon focused on cybersecurity, demonstrating strong problem-solving skills, teamwork, and knowledge of information security principles. Demonstrated understanding of networking, information security, programming, Linux and shell scripting
- **Webmaster - Information Security Club at iSchool**: Managed and maintained the club's website, ensuring it is secure, up-to-date, and fully functional. Collaborated with club members to promote cybersecurity awareness through online resources and events
- **IEEE Publication**: O. Gunjal, S. Garje, S. Aghav, L. Jaykar, S. Sangve and S. Gunge, "An Enhanced English to Marathi Translator using sequence-to-sequence Transformer," 2023 4th IEEE Global Conference for Advancement in Technology (GCAT), Bangalore, India, 2023, pp. 1-5, doi: 10.1109/GCAT59970.2023.10353330