SUJITH LAKKIMSETTI

Albany, NY| sujithlakkimsetti222@gmail.com|
+1 (361) 960-5946

EDUCATION

Master of Science in Computer Science Dec '24
Texas A&M Corpus Christi Corpus Christi, Texas

- Coursework Software Engineering, Algorithms and data structure, Operating System, Database management system, Advance programming concepts, Theory of computation.

Bachelor of Technology in Computer Science and Engineering May '22
Gayatri Vidya Parishad collage of engineering. Visakhapatnam, India

- Coursework on Data Structure and Algorithms, Java Programming, Android application development, Operating Systems, Database Systems

TECHNICAL SKILLS

- **Programming Languages**: Python, Java, JavaScript, HTML & CSS, SQL, Pandas, NumPy.
- **Frameworks & Automation:** Flask, pytest, Pytorch.
- **Data tools:** MySQL, PostgreSQL, SOQL.
- **Libraries**: PySpark, TensorFlow.
- **Cloud**: AWS Lamda, AWS S3, AWS EC2, AWS Code Commit, AWS CloudWatch, AWS Glue.
- **API**: REST API'S.
- **Visualization Tools**: Tableau, Power BI.
- **Version Control Tools:** Git, GitHub, CI/CD.
- **Data Management**: Data Import Wizard, Data Loader, Duplicate Rules.
- **Agile Methodologies:** Experience with JIRA & Scrum.
- **Platforms:** Windows, Windows Server**.**
- **Salesforce**: Administration, Flows, Reports & Dashboards, Security & Permissions, SOQL, Apex Classes, Apex Triggers, batch class.

WORK EXPERIENCE

Data Analyst Intern | Anantha Tech Sols, India Nov '21 – Oct '22

Data Warehouse & User Behavior Analysis | SQL, Power BI.

- Analyzed and understood an enterprise-level data warehouse schema with over 10 interrelated tables such as users, packages, teams, events, and features.
- Wrote SQL queries using JOIN, GROUP BY, and filtering across tables.
- Created summary tables and cleaned data for reporting and dashboarding. Built Power BI visuals showing user activity by team, location, and feature usage.
- Learned the importance of 1:1 and 1: N relationships in building accurate reports and insights.

ACADEMIC PROJECTS

Flight Ticket Booking Portal:

- Designed backend using PostgreSQL with robust filtering, booking, and user management features.

Mini bank:

- Built a **mini banking system in Python (OOP)** with secure **PIN verification (SHA-256)**, auto **4-digit account generation**, and safeguards for deposits/withdrawals (3-attempt PIN lockout, insufficient-fund checks).
- Developed a **responsive React SPA** that mirrors server logic, using the **Web Crypto API** for client-side hashing, **form validation**, and **local Storage** persistence; clean, accessible UI with Tailwind.
- **Abstracted business logic** into a reusable service layer and defined **API-ready interfaces**, enabling drop-in integration with **Flask/Fast API** while maintaining separation of concerns and testability.
- Implemented **robust input validation and error handling** across create/deposit/withdraw/balance/close flows and added concise usage docs, improving reliability and user feedback.

City Compass – Comprehensive Urban Services | Platform Technologies: React.js, Node.js, SQL, AWS, Postman, Google Chrome

- Designed and developed a unified web platform integrating service booking, job search, itinerary planning, and community forums for urban residents and tourists.
- Built RESTful APIs for service management, booking, and user interactions, ensuring robust and secure backend operations using Node.js and SQL.
- Conducted extensive testing with Postman (API testing) and Selenium (UI automation), ensuring a bug-free launch.

Key Contributions:

- **AI-Powered Features:** Developed a personalized itinerary planning feature leveraging AI to recommend activities based on user preferences.
- **Security and Privacy:** Ensured robust data protection measures adhering to industry standards, improving user trust.
- **Stakeholder Collaboration:** Engaged with local businesses, service providers, and community organizations to align platform features with user needs.

Prediction of COVID-19 by using CT-Scan Images | Python, OpenCV, CNN, Google Colab, Flask**.**

- Predicting COVID Status of a person with help of CT_SCAN Images using Deep Learning Techniques like Convolutional Neural Networks.
- This approach has gained attention as a potential tool for early and accurate diagnosis, especially in cases where polymerase chain reaction (PCR) tests are inconclusive or unavailable.
- Increased calculating points to 6 to enhance the pattern recognition by 30%.
- Formulated and distanced the edges between the points of eyes calculation.
- Increased no. of epochs to 100 for better training in turn for better predictability.

Brain Tumor detection using Deep Learning | Python, Regression, Google Colab, Flask, Heroku.

- Detecting Brain Tumor in early Stages with help of M.R.I. Scan Images using Deep Learning Models.
- Collaborated with medical experts, maintaining ethical standards, and rigorous validation are essential aspects of such projects.
- Preprocessed scraped data to generate a numerical model using XGBoost.
- Achieved 77% on enhancing the model with CATBoost in predicting the reactions that vaccines left on the people.
- Built with code splitting by dynamically render blocking resource of scss.

Developed a Salesforce Banking App simulating banking functionalities including Bank, Branch, Account, Loan, Loan Detail, and Transactions objects.

- Implemented branch hierarchy, allowing accounts to shift between branches while maintaining transaction integrity.
- Created process automation to enforce account creation rules, ensuring minimum balance for different account types.
- Configured automated workflows to generate email notifications for transaction alerts, loan approval updates, and monthly transaction summaries.
- Designed approval processes for loan applications and high-value transactions, integrating role-based access control.
- Developed custom reports and dashboards displaying branch-wise account distribution, loan summary, and transaction history for better financial decision-making.
- Secured data access through custom profiles, roles, and field-level security, restricting user permissions as per banking policies.
- Integrated Salesforce Path Component on loan details to track loan progress through various stages.

AWS Serverless Demand Forecasting (Python)

- Built an **S3** data lake with **AWS Lambda (Python)** for daily ingestion/validation of CSV/JSON, partitioned **Parquet** outputs for cheap/fast reads.
- Engineered time-series features using **Pandas/NumPy** and **PySpark**, trained a **TensorFlow** model (with Prophet/ARIMA baseline), tracked metrics and stored artifacts in **S3**.
- Deployed a **Flask** REST API on **EC2** (gunicorn/Nginx) to serve /forecast and /health, added **pytest** tests and **CI/CD** via **CodePipeline/GitHub**.
- Automated nightly retraining with scheduled **Lambda** and monitored latency/errors via **CloudWatch**, improving MAPE from **~18% → ~9%** and cutting manual prep time by **90%**.

Customer Churn Analysis:

- Built an end-to-end churn analytics pipeline (SQL/dbt/Pandas) with a documented star schema and data quality checks.
- Trained Logistic Regression/XGBoost with calibrated probabilities; used SHAP to surface top churn drivers and reason codes.
- Shipped a Power BI dashboard (risk by segment, cohorts, target list) and ran an A/B test to measure retention-offer lift.
- Achieved 3–5pt churn reduction on the targeted top decile and automated CI/CD + scheduling for a reproducible workflow.

Certification

- Salesforce Administrator
- Salesforce Platform Developer 1
- SQL for Data Science – Udemy (In Progress)
- Data Analyst with Python – Udemy (In Progress)

ADDITIONAL DETAILS

- Open to remote and hybrid work opportunities.
- Strong verbal and written communication skills.
- Worked on a user-feature relationship data model involving real-world data sources like Salesforce and MySQL.

  Applied SQL joins across fact and dimension tables to create usage summaries and engagement dashboards.