

# Hemanth Sai Gokarakonda

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## Education

### California State University Long Beach

Expected May 2024

Master of Science in Computer Science (GPA: 3.44 / 4.00)

Long Beach, CA

- **Relevant Coursework:** Data Structures and Algorithms, Artificial Intelligence, Natural Language Processing, Pattern Recognition, Object Oriented Design, Software Engineering, Topics in Distributed Computing, Blockchain Technology, Advanced Computer Architecture, Advanced Programming Languages.
- **Certifications:** Salesforce Certified Administrator, AWS Solutions Architect Associate, Automation Anywhere Certified RPA Professional, Wipro Digital Readiness Program, Cisco PCAP, MTA Security Fundamentals.

## Work Experience

### Optum Global Solutions

Feb 2022 – Jul 2022

Associate Software Engineer - II

India

- Revamped and implemented responsive user interfaces with Angular, Python, SQL leading to a 15% improvement in user satisfaction scores.
- Executed server maintenance and updates, leading to a noteworthy 70% increase in server uptime and an impressive 80% boost in processing speed.
- Created a Python application for XML file processing and data storing, achieving a remarkable 90% speed boost.
- Administered file maintenance and execution in the production system.

### Accenture

Jun 2021 – Feb 2022

Application Development Associate

India

- Integrated data from diverse vendors with Datastage, achieving 98% accuracy in disseminating key information to the data warehouse and banking system vendors.
- Created Confluence pages and utilized Splunk for server monitoring.
- Supported changes and outages in the production environment resulting in 90% increase in customer satisfaction.
- Resolved 100% of incidents and failures within established service level agreements.
- Generated reports and interactive dashboards from the database, cutting work time by 80% for comprehensive insights with Tableau, Excel and SQL.

## Projects

### Tune Therapy | Python, Oracle, Jupyter, NLP, MS Office

- Developed mood assessment software using NLP for playlist analysis, TF-IDF for preprocessing, and LDA for topic modeling.
- Drafted a research paper and submitted it to multiple Artificial Intelligence conferences.
- Achieved 93% test accuracy while training a mood prediction model on a 500k-song dataset, enabling personalized music recommendations.

### Forest Fire Prediction | Pattern Recognition, Python, Jupyter, MS Office

- Developed a prediction model with environmental data, was able to anticipate the size of forest fires with 98% accuracy, demonstrating proficiency with data analysis and machine learning.
- Investigated the link between environmental conditions and forest fire spread, finding important predictors with 90% confidence by generating various visualizations.
- Used predictive modeling to improve fire control tactics, resulting in a 15% reduction in impacted forest areas.

### Inventory Optimization and Sales Forecasting Analysis | Python, Jupyter, AI, MS Office

- Employed Python, Pandas, and Seaborn to analyze data from 132 stores, extracting insights on inventory dynamics.
- Engineered precise sales forecasts using Random Forest, Gradient Boosting, XGBoost, CNN, LSTM, Transformers and optimizing hyperparameters achieving 83.8% test rsquared value.
- Implemented Explainerdashboard, enhancing inventory decision-making with transparent model insights and superior performance metrics.

## Technical Skills

**Languages:** C, C++, Java, Python, JavaScript, Angular, Node, HTML, CSS, Oracle, MySQL, UNIX, Apex, SOOQL, Junit.

**Technologies:** TensorFlow, CUDA, AI, NLP, Pattern Recognition, ETL, Informatica, Datastage, Tableau, NoSQL, AWS, Git, Jira, Confluence, VS Code, Jupyter, Linux, Devops, OLTP databases API, Salesforce, Docker, Kubernetes, CI/CD.