

GOWTHAM VENKATA SAI RAM MADDALA

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EDUCATION

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| Stony Brook University, Stony Brook, New York <i>Master of Science in Data Science, GPA: 3.84/4</i> | Aug 2024 - Dec 2025 |
| International Institute of Information Technology, Bangalore, India <i>Advanced Certificate Programme in Data Science with Specialization in NLP, GPA: 3.8/4</i> | Apr 2023 - Dec 2023 |
| Koneru Lakshmaiah Education Foundation - KL University, Hyderabad, India <i>Bachelor of Technology in Computer Science with specialization in Data Science, GPA: 9.02/10</i> | Sept 2017 - May 2021 |



TECHNICAL SKILLS

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| Programming Languages: | Python, C, C++, Java, HTML, CSS, JavaScript, R, MATLAB, SQL |
| Tools and Platforms: | Git, Docker, Kubeflow, Flask, FastAPI, Google Cloud Platform (GCP), Microsoft Azure |
| Frameworks and Libraries: | TensorFlow, PyTorch, Keras, NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, CUDA |
| Machine Learning: | Predictive Modeling, GBDTs, Random Forests, Clustering, LLMs (LLaMA, GPT, Mistral) |

EXPERIENCE

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| Soroco Software Engineer (Machine Learning) — Azure DevOps, Python, Docker, Pytest, SQL, APIs | Feb 2024 - Jul 2024 <i>Bangalore, India</i> |
| <ul style="list-style-type: none">Developed 4 Flask APIs to generate flowgraphs of user activities based on screens used for the Workgraph product.Trained YOLOv9 on annotated screenshots to enable the model to accurately detect interacted fields on user's screens.Leveraged the Guidance library to format LLM outputs, reducing post-processing needs, and optimized Mistral-7B and LLaMA2 models, cutting average inference time from 5 seconds to 0.8 seconds without compromising quality.Designed the test cases using PyTest, ensuring smooth functionality of APIs, and validated JSON outputs using Postman.Boosted company revenue by 15% through successful onboarding of 3 Fortune 500 clients in a timeframe of 4 months. | |
| Awone.ai — Client: Carelon Global Solutions Data Scientist — Python, Bert, DBSCAN, Predictive Modelling, Tensorflow, PCA | Apr 2023 - Feb 2024 <i>Hyderabad, India</i> |
| <ul style="list-style-type: none">Developed a Jira ticket analysis using BERT and DBSCAN for effective clustering of ticket summaries and descriptions.Converted these text into 200-dimensional vectors using BERT and applied DBSCAN clustering on the embeddings.Predicted resolution time using polynomial regression with Lasso regularization, achieving an R-squared value of 0.89.Automated workforce assignment and resource allocation based on cluster analysis, reducing operational costs by 30%. | |
| Ivy Comptech Software Engineer — MySQL, Java | Aug 2021 - Feb 2022 <i>Hyderabad, India</i> |
| <ul style="list-style-type: none">Managed a high-volume transactional database with over 3 million records as part of the wallet/payments team.Optimized 30 complex SQL queries, reducing execution time by 30% and significantly boosting data pipeline performance. | |
| Telescope (Voxlogic.inc) — Acquired by Meta Software Development Intern (AI Platform Team) — Python, TensorFlow, APIs | Jul 2020 - Dec 2020 <i>Sunnyvale, USA - Remote</i> |
| <ul style="list-style-type: none">Architected a conversational search solution using the TAPAS model from Hugging Face, enabling numerical question answering on tabular data extracted through a custom web scraping pipeline, achieving 97.45% accuracy.Integrated the model into Slack, allowing users to input tabular data and receive real-time responses, and quantized the model using TensorFlow to optimize for speed, ensuring swift responses during conversational searches.Contributed to the development of Telescope, which was later acquired by Meta for \$2.4 million in 2021. | |

PROJECTS

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| Ola Driver Churn —  GitHub <ul style="list-style-type: none">Engineered a high-performance driver churn prediction model for Ola using XGBoost, achieving 0.97 precision, recall, and 0.98 AUC score, by analyzing key features such as income, total business value, and quarterly ratings.Conducted feature analysis and engineering on Ola driver data, implementing KNN-based imputation and target encoding to optimize model performance and identify primary factors influencing driver retention. |
| Summarizing news articles using LSTMS —  GitHub <ul style="list-style-type: none">Implemented a many-to-many LSTM model to generate summaries from 60,000 news articles, improving performance by stacking additional LSTMs and applying dropout, achieving a ROUGE-L score of 0.72. |