RAGHU HASAN BOKAM

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Summary

Machine learning engineer who ships production systems combining NLP, computer vision, and infrastructure. Built real-time ASL recognition (87% accuracy), claim verification pipelines with fine-tuned transformers (85.4% accuracy), and multilingual text classifiers across 3 languages. Comfortable with full-stack ML, from model architecture to PyTorch optimization, FastAPI backends, and cloud deployment.

Education

Purdue University　　　　　　　　　　　　　　　　　　　　　　　**Aug 2024 - May 2026**
Masters of Science, Computer Science [GPA : 3.83]

National Institute of Technology, Jamshedpur　　　　　　　　　　**Dec 2020 - May 2024**
Bachelor of Technology [Hons.], Computer Science and Engineering [GPA : 3.21]

Experience

SevenTablets Inc.　　　　　　　　　　　　　　　　　　　　　　　**May 2025 - Present**
Software Engineer Intern　　　　　　　　　　　　　　　　　　　　　*Addison, TX, USA*
- Developed REST APIs using GoLang to integrate multiple internal tools and services, improving system reliability and enabling seamless data flow across 7 applications.
- Managed DevOps infrastructure by deploying and orchestrating Docker containers on AWS EC2, configuring Nginx reverse proxy for HTTPS on A records, and implementing secure cloud deployments across 8 services, resulting in faster releases and higher system uptime
- Led technical automation and built AI-powered dashboards from raw Excel and PDF files, eliminating 90% of manual tasks, saving up to 30 hours/week for each team, and enabling 50+ users to extract insights in under 10 seconds.

Cubastion Consulting Pvt. Ltd.　　　　　　　　　　　　　　　　　**Jan 2024 - Jul 2024**
Salesforce Developer Intern　　　　　　　　　　　　　　　　　　　*Gurgaon, Haryana, India*
- Developed and customized Siebel CRM solutions to streamline client workflows, enhancing user experience and improving operational efficiency by 20%.
- Designed and implemented Salesforce solutions, including Marketing Cloud, to address business challenges, boosting automation by 35% and enhancing campaign performance.
- Tested and troubleshot Salesforce applications using automated test suites, ensuring seamless Marketing Cloud integration and reducing errors by 25%

Projects

ASL Recognition & Translation System　　　　　　　　　　　　　　**Aug 2025 - Dec 2025**
- Built an end-to-end ASL recognition system achieving 87% accuracy on 100 sign classes using TGCN models (ONNX Runtime), processing video and live camera feeds (10 FPS) with real-time pose extraction of 55 keypoints and 50-frame temporal sequences
- Developed React frontend with live camera capture and FastAPI backend processing videos (200 frames, 100MB max); integrated FLAN-T5/GPT-2 for sentence formation, Google Translate API, and PiperTTS for multilingual audio generation, supporting 100-2000 sign classes with optimized PyTorch-to-ONNX conversion

Evidence-Aware Claim Verification on AVeriTeC Dataset　　　　　　**Jan 2025 - May 2025**
- Designed a two-stage claim verification system retrieving web evidence via BM25/DPR and classifying claims using fine-tuned BERT/RoBERTa, achieving 85.4% accuracy and 0.783 macro F1-score.
- Classified real-world claims into Supported, Refuted, Not Enough Evidence, and Conflicting Evidence by processing claim-evidence pairs with evidence-level embeddings.

Multilingual News Narrative Extraction　　　　　　　　　　　　　**Aug 2024 - Dec 2024**
- Combined XGBoost, SVC, Random Forest with XLM-RoBERTa and mBERT for multilingual text classification, achieving 86% EMR for Hindi and 84% for Bulgarian.
- Implemented Label Powerset for multi-label classification with BERT and TF-IDF embeddings, achieving F1 scores of 0.42 for Russian.

Technical Skills

- **Languages:** Python, Java, C++, JavaScript, SQL, HTML/CSS, GO
- **Frameworks/Tools:** React, Flask, TensorFlow, PyTorch, Firebase, Git, GoLang, Tensorflow, PyTorch
- **Technologies:** REST API, Salesforce, Google Cloud Platform, Docker, Natural Language Processing, AWS, Machine Learning, Deep Learning, Generative AI, Computer Vision, Relational Databases, Kubernetes
- **Coursework:** Data Structures, Computer Networks, Computer Graphics, Internet of Things (IoT), Data Mining, Database Management, Operating Systems, System Design, High Performance Computing, Compiler Design, Deep Learning, Blockchain, Full Stack Development, Software Engineering, Ethical Artificial Intelligence, Artificial Intelligence, Rapid Prototyping