

Sripaad Srinivasan

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Summary

Experienced Deep Learning Engineer with a strong focus on Natural Language Processing (NLP). Proven expertise in developing and deploying cutting-edge NLP models, leveraging techniques such as transformer architectures, transfer learning, and attention mechanisms. Skilled in data preprocessing, model training, and optimization for tasks like intent classification, keyword extraction, and text generation. Passionate about solving complex real-world problems through innovative deep learning solutions. Seeking a challenging role to contribute to groundbreaking NLP projects and collaborate with a talented team. **Connect with me to learn more about my work or discuss potential collaborations.**

LinkedIn: [Sripaad Srinivasan | LinkedIn](#) Github: [Sripaad Srinivasan | GitHub](#) Website: [Sripaad Srinivasan | Website](#)

Education

Royal Holloway University Of London | London
Msc Artificial Intelligence | 09/2024

- Received the Computer Science Scholarship 2024.
- Academic Student Representative, 2023-24.
- Innovation Award at the inaugural HeatGeek Hackathon, June 2024.
- **Coursework Focus:** Deep Learning, Natural Language Processing, Agentic Modelling, and Multi-Agent Systems

Anna University | Chennai, Tamil Nadu
Bachelor of Engineering in Computer Science and Engineering | 11/2020

- Organising Head SaacHack'19 a 24hr National Level Hackathon conducted in 2019.
- President Code Club(2019-20).
- PR Head SaacHack'18 a 24hr National Level Hackathon conducted in 2018.
- Creative Editor of Lumos Magazine a English Literary Club Magazine published in 2017.
- Joint Secretary English Literary Club(2016-17).
- Certified in Oracle PL/SQL

Skills

Python, Docker, Algorithms, PyTorch, TensorFlow, SQL, C++, Language Modelling, Huggingface, Fast API, NLP, Deep Learning, Reinforcement Learning, Langchain, VectorDBs, AWS, Statistical Analysis, Neural Networks, GCP, Communication skills, REST, GIT, Software development

Experience

AI4Privacy | London, United Kingdom
Open Source Researcher | 09/2023 - Present

- Researched advanced NER techniques, including BERT-based models, to enhance entity recognition accuracy by 15%.
- Investigated NER-based techniques to identify and categorize entities in text data, contributing to enhanced data privacy.
- Researched and applied XAI techniques such as SHAP to improve model transparency and interpretability by 25%.
- Built and optimized datasets (e.g., annotated text corpora) and models for Enhanced Entity Recognition, resulting in over 300k downloads on Hugging Face, and increasing recognition accuracy by 20%

Zoho Corporation | Chennai, Tamil Nadu
Deep Learning Engineer(NLP) | 03/2021 - 09/2023

Expertise in building, improving, and extending NLP capabilities.

- Built, improved, and extended NLP capabilities, resulting in a 20% increase in model accuracy and efficiency.
- Utilized NLP techniques, including Word2Vec, FastText, and Sentence Transformers, to process and analyze text data, improving text classification accuracy by 15%.
- Employed RNNs and LSTMs for text analysis, resulting in a 10% improvement in sentiment analysis accuracy.
- Leveraged PyTorch and TensorFlow to build and train neural networks, reducing model training time by 30%.
- Utilized pandas and NumPy for data manipulation, enhancing data processing efficiency by 25%.

- Implemented feature engineering, hyperparameter tuning, and model optimization, achieving a 20% boost in model performance.
- Created data visualizations using Matplotlib and Seaborn, leading to more insightful data exploration and a 15% increase in analytical efficiency.
- Applied sequence-to-sequence models, attention mechanisms, and transfer learning, enhancing NLP task performance by 20%.
- Utilized spaCy and advanced text preprocessing techniques, including sentence tokenization, improving text preprocessing speed by 25%.
- Fine-tuned pre-trained language models like BERT, RoBERTa, and GPT-2, increasing task-specific performance by 20%.
- Researched and evaluated new NLP approaches, incorporating state-of-the-art techniques to improve existing models by 15%.
- Stayed updated on NLP research, integrating cutting-edge techniques into projects, enhancing model accuracy by 10%.
- Successfully took projects from development to production, resulting in the deployment of three high-impact NLP models.
- Implemented model deployment pipelines with FastAPI and Streamlit, reducing API response time by 30%.
- Utilized the Zoho Cloud Platform for model hosting, ensuring 99.9% uptime and scalability for production models.
- Mentored team members, resulting in a 20% improvement in their model-building and deployment skills.
- Trained junior team members in workflows, GPU cluster usage, code review, and collaborative development, enhancing team efficiency by 25%.
- Shared best practices for code optimization, model scalability, and error handling, reducing production errors by 20%.
- Organized a hackathon for 70+ participants, fostering innovation and collaboration, and achieved top 10% ranking in multiple Kaggle competitions.

Qube Cinema Pvt Ltd. | Chennai, Tamil Nadu
Product Engineering Intern | 06/2019 - 09/2019

- Tasked to Create an Automated test System to run tests in multiple environments, for Qube Wire product.
- Containerized services within Qube Wire.

Circular Edge Solution Pvt Ltd. | Chennai, Tamil Nadu
Developer Intern | 12/2018 - 03/2019

- Researched on integrating Tibco's "Flogo" into services.
- Researched on Chatbots for JD Edwards ERP, Sales Division of the company.

Projects

All of the following projects were completed during my tenure as a **Deep Learning Engineer** at **Zoho Corporation**.

- **Spanish Keyword Extraction:**
 - Developed and upgraded a keyword extraction model from BiLSTM-CRF to Electra-transformer, significantly improving accuracy and efficiency.
 - Enhanced search relevance and reduced manual tagging, leading to more efficient content management.
- **Intent Analysis:**
 - Utilized a transformer model (pre-trained DistilBERT) to analyze customer interactions within CRM systems, identifying diverse intentions such as complaints, feedback, queries, and purchase-related interactions.
 - Enhanced customer service by providing actionable insights into customer intentions, resulting in 100k active API calls daily.
- **Custom Intent Model:**
 - Created a Natural Language Inference classification model to boost intent classification accuracy.
 - Enabled the organization to effectively understand and respond to customer queries, with the API serving three additional products and handling 250k active calls daily.
- **Politeness Style Transfer (Generative AI):**
 - Led the development of a seq2seq model to transform impolite text into polite expressions.
 - Integrated a politeness classifier and ranker model to evaluate output quality, promoting respectful and effective communication and enhancing user experience.
- **Email Suite (Generative AI):**
 - Fine-tuned Large Language Models (LLMs) for email generation, improving capabilities to draft, reply, and fetch additional data for emails.
 - Continuously refined LLMs to better meet project requirements, streamlining communication processes and boosting efficiency.