

Sravani Boinepelli

Full Stack Developer | AI/ML Engineer

Authorized to work (US Citizen)

✉ | [in](#) | [gh](#) | sravaniboinepelli.github.io

EXPERIENCE

ProService Hawaii

Full Stack Developer

May 2024 – Current

Austin, Texas, USA

- Built the company's new Admin Portal platform from the ground up, leveraging Next.js for server-side and client-side rendering of UI, and Elixir for building APIs.
- Built an agentic AI chatbot that goes beyond passive response generation by integrating with tools like Auth0 and PrismHR to perform tasks and trigger workflows. The knowledge base was curated from scraped articles and transcribed videos using speech recognition, and integrated via AWS Lambda, Lex, and Bedrock.

Couture.ai (CAI Tech)

Full Stack Developer

July 2022 – April 2024

Bangalore, India

- Developed an AI/ML workflow platform with resource-adaptive scheduling, hyperparameter tuning, and secure role-based access. Led a platform overhaul, boosting efficiency across teams.
- Created an end-to-end Exploratory Data Analysis (EDA) tool that generates interactive visualizations and insights from large-scale statistical, textual, and multimodal data using PySpark, FastAPI and AWS S3.
- Also delivered custom solutions like LLM chatbots for banking and fraud detection on transaction data.

Graduate Researcher at Information Retrieval and Extraction Lab

Language Technology Research Centre, IIIT Hyderabad

May 2019 – May 2022

Hyderabad, India

- Guided by **Prof. Vasudeva Varma**(IIIT-H) and **Niyati Chhaya**(Adobe Research) to analyze and solve problems in the intersection of Artificial Intelligence, Machine Learning and Natural Language Processing as part of the Project Angel team. The project was awarded the prestigious **Google India AI/ML Research Award**.

EDUCATION

International Institute of Information Technology (IIIT), Hyderabad

MS by Research in Computational Linguistics | B.Tech in Computer Science

2017 - 2022

Hyderabad, India

◊ Recipient of Dean's List(2020) and Merit List(2021) Academic Awards. ◊ Defended Master's thesis on the detection and modelling of depression and other mental health disorders on various social media platforms.

PUBLICATIONS

Leveraging Mental Health Forums for User-level Depression Detection on Social Media | Language Resources and Evaluation Conference, Marseille, France. European Language Resources Association, 2022

An Overview of Simple Text Classification Methods for Meme Analysis | Workshop on Semantic Evaluation, Barcelona. International Committee for Computational Linguistics, 2020

Towards Capturing Changes in Mood and Identifying Suicidality Risk | Workshop on Computational Linguistics and Clinical Psychology, Seattle, USA. Association for Computational Linguistics, 2022

PROJECTS

Context-Aware Hashtag Generation: A text-to-hashtag system that incorporated a notion of popularity to rank generated hashtags for social media.

Wikipedia Search Engine: A distributed search engine for a large corpus (70GB) of Wikipedia pages. Generated an index for fast multi-word information retrieval. Supports field queries without using external tools and libraries.

Interactive Linux Shell: A custom terminal shell coded in C++ based on the POSIX architecture with integrated syscalls. Supports numerous bash commands along with piping, redirection, foreground and background processing.

Propaganda-based Fake News Detection: Finetuned transformer model to detect propaganda, packaged as a browser extension.

SKILLS

Languages: Python, C/C++, HTML, JS, React, Flask, MATLAB, FastAPI, SQL, Elixir, PySpark, Shell Scripting

Libraries & Platforms: TensorFlow, PyTorch, AWS, kubernetes, scikit-learn, keras, pandas, L^AT_EX, Figma

Leadership & Miscellaneous Achievements:

◊ Teaching Assistant: IRE, Software Engineering, and Intro to Software Systems ◊ Research Assistant at iREL, IIIT-H
◊ Head of Alumni Cell, IIIT-H (2019-20) ◊ Google Research India - AI Summer School '20 ◊ Awarded 'Best Game Design and Artwork' (Unity, C#) at 'Level Up!' Game-jam Hackathon, hosted by Unity Technologies