

Sneha Balasubramoni

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Professional Summary

An AI Data Science Engineer with a strong foundation in NLP, Machine Learning, and Python Programming. Passionate about understanding language structures and leveraging AI to bridge language barriers. Highly motivated to pursue research opportunities focused on AI applications in the medical field, with a strong interest in advancing healthcare through innovative solutions.

Education

Amrita School of Computing, B.Tech in Computer Science and Engineering (Artificial Intelligence) July 2019 - July 2023

- **GPA:** 9.01/10
- **Coursework:** AI in Natural Language Processing, Deep Learning for Signal & Image Processing, AI in Speech Processing, Deep Reinforcement Learning, Big Data Analytics

Experience

AI Data Science Engineer I and Technical Intern, Medtronic - Hyderabad, India Feb 2023 – Present

- Worked as an intern for five months before becoming a full-time employee.
- Developed an NLP and ML-based recommendation system for the Diabetes Complaint Handling Unit, saving 2000 man hours annually.
- Automated regulatory email uploads using OCR & Microsoft Power Automate, saving 500 man hours annually and reducing compliance risk.
- Applied statistical analysis to monitor complaint volume, allowing for early identification of quality and reliability issues in products.
- Won the **Best Rookie Award** for my contributions

Research Intern, Amrita School of Computing – Bengaluru, India July 2022 – Dec 2022

- Conducted research on mitigating spelling and grammatical errors in documents processed by OCR. Utilized BiLSTM & BERT in the pipeline.
- This work was published in the 2023 IEEE 3rd Mysore Sub Section International Conference (MysuruCon)

Data Science and Business Analytics Intern, The Sparks Foundation – Remote Jan 2021 – Feb 2021

- Performed sales analysis on a business to identify opportunities for increased profitability, leveraging Tableau and Power BI for data visualization and insights.
- Developed a predictive model to estimate student performance based on study hours and forecast scores.

Publications

Thangam, U Kumaran, Dipshikha Biswas, B Sneha, Suneel Nadipalli, and Saleem Raja. "Text Post-Processing on Optical Character Recognition Output Using Natural Language Processing Methods." *Proceedings of the 2023 IEEE 3rd Mysore Sub Section International Conference (MysuruCon)*, IEEE, 2023, pp. 1-6, doi: 10.1109/MysuruCon59703.2023.10396964. 2023

Biswas, Dipshikha, Suneel Nadipalli, B. Sneha, Deepa Gupta, and Amudha J. "Natural Question Generation Using Transformers and Reinforcement Learning." *Proceedings of the 2022 OITS International Conference on Information Technology (OCIT)*, IEEE, 2022, pp. 283-288, doi: 10.1109/OCIT56763.2022.00061. 2022

Biswas, Dipshikha, Suneel Nadipalli, B. Sneha, and M. Supriya. "Speech Recognition Using Weighted Finite-State Transducers." *Proceedings of the 2022 IEEE 7th International Conference for Convergence in Technology (I2CT)*, IEEE, 2022, pp. 1-5, doi: 10.1109/I2CT54291.2022.9824703. 2022

Biswas, Dipshikha, Sarada Jayan, Suneel Nadipalli, Sneha B., and Subramani R. "Attendance Tracking with Face Recognition Through Hidden Markov Models." *Proceedings of the 2022 International Conference on Electronics and Renewable Systems (ICEARS)*, IEEE, 2022, pp. 1640-1645, doi: 10.1109/ICEARS53579.2022.9751888.

2022

Awards

Consolation Prize in the Go AI for Social Good Hackathon

June 2022

Issued by Institute of Electrical and Electronics Engineering (IEEE)

Implemented a Reddit Mental Health chatbot, that identifies the type of mental health issue using NLP and suggests potential remedies by providing helpline numbers and relevant articles.

Skills

Programming Languages: Python, R

AI & Machine Learning Frameworks: TensorFlow, PyTorch, Scikit-Learn, Keras

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Plotly, Tableau, PowerBI

Natural Language Processing Libraries: SpaCy, NLTK, Hugging Face Transformers, Gensim

Memberships & Volunteer Work

Chairperson

Sep 2021 - Jun 2022

ACM-W Student Chapter, Amrita School of Computing

- Lead a team of 6 people and conducted events, workshops and hackathons.
- Increased active participation by 20% over the course of a year.

Section Leader

Apr 2024 - May 2024

Stanford Code In Place

- Taught Stanford's flagship Intro to Python course, CS106A, to a section containing 13 people, over the course of six weeks.

Data Science Track Volunteer

Jul 2021 - Jul 2023

Women Who Code

- Organized and conducted several sessions and workshops related to Machine Learning, Deep Learning, Data Science and Python.
- Had over 200 attendees globally.

Academic Support Volunteer

Dec 2023 - Feb 2024

Kriti (NGO)

- Taught students from a government high school, the importance of social skills and communication.

Academic Support Volunteer

Sep 2019 - Jan 2023

Make A Difference (NGO)

- Taught high school students from a shelter home, concepts in Math and English.

Links

LinkedIn - <https://www.linkedin.com/in/sneha-b-074/>

GitHub - <https://github.com/Sneha421>

Stanford Code In Place (Completion Badge) - <https://shorturl.at/3bvRz>

Hackathon Certificate - <https://shorturl.at/Corr4>