

# BADRI NARAYANAN MURALI KRISHNAN

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## EDUCATION

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**University of Wisconsin-Madison** **Sep 2023 – Dec 2024 (Expected)**  
*Master of Science - Computer Sciences; CGPA: 3.65 / 4.0* Madison, WI  
**Relevant Courses:** Intro to AI, Advanced NLP, Foundational Models, Big Data, Data Clean & Integration for DS.  
**SSN College of Engineering (Affiliated to Anna University)** **Aug 2018 – May 2022**  
*B.Tech in Information Technology; CGPA: 8.95 / 10.0* Chennai, India

## SKILLS

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**Programming Languages** Python, C, C++  
**Frameworks and Tools** PyTorch, TensorFlow, Keras, LangChain, Spark, Git, Docker, SQL, AWS  
**Libraries** NumPy, pandas, scikit-learn, streamlit, NLTK, spaCy, OpenCV

## WORK EXPERIENCE

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**Autonomous System Research Intern** **Jun 2024 – Aug 2024 (2 Mos)**  
*Nokia Bell Labs* *Murray Hill, NJ*  
→ Leveraged **LangChain** and **Prompt Engineering** techniques to substantiate **LLM** planning & reasoning power.  
→ Visualized and deployed the **multi-agent system** using **streamlit** to interact and demonstrate their capabilities.

**Master's Research** **Sep 2023 – May 2024 (8 Mos)**  
*University of Wisconsin - Madison* *Madison, WI*  
→ Ran comprehensive benchmark tests on various LLMs with different configurations on various hardware platforms.  
→ Formulated an RNN-based approach for trajectory prediction using Wifi signal data and historical user data.

**Associate Engineer - AI/ML** **Jul 2022 – Jul 2023 (1 Yr)**  
*Qualcomm* *Hyderabad, India*  
→ Introduced evaluation frameworks and metrics for ML models to enhance efficiency and accuracy by **10.26%**.  
→ Ran inference and benchmark tests using SNPE (SnapDragon Neural Processing Engine), based on OEM requests.

**Machine Learning Intern** **Mar 2021 – Jun 2022 (1 Yr 4 Mos)**  
*Mad Street Den (Vue.ai)* *Chennai, India*  
→ Developed OCR/NLP-based document processing tool to convert unstructured data for workflow automation.  
→ Our efforts reduced document processing time by **37%** and achieved an accuracy of **85%**.

**Part-Time Undergraduate Research Assistant** **Feb 2020 – Jun 2022 (2 Yrs 5 Mos)**  
*Bright Academy (Previously Solarillion Foundation)* *Chennai, India*  
→ Led NLP team translating German sign language weather videos into accurate German sentences.  
→ **30.88%** fewer model parameters than the SOTA, **98.19%** and **86.65%** retention for **ROUGE-L** and **BLEU-4**.

## SELECTED PROJECTS

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**Relationship Extraction using Language Models** [Github](#) **Feb 2024 - May 2024**  
→ Extracting complex relationships between entities from unstructured text data, leveraging language models.

**Optimizing Natural Language Understanding: Fine-tuning Mistral 7B** [Github](#) **Feb 2024**  
→ Fine-tuning Mistral 7B LLM on the Samantha dataset to conversational and contextual question answering.

**Terms of Service Classification** [Github](#) **May 2022 - Jun 2022**  
→ Identify unfair Terms of Service clauses using a two-stage knowledge distillation DL algorithm.

## SELECTED PUBLICATIONS

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**Fake News Detection using a Deep Learning Transformer Based Encoder-Decoder architecture**  
[Publication](#) [Github](#)

*IOS Press - Journal of Intelligent & Fuzzy Systems, 2023 (Science Citation Index Expanded Journal.)*

**Sign Language Translation using Multi Context Transformer** [Publication](#) [Github](#)

*20<sup>th</sup> Mexican International Conference on Artificial Intelligence (MICAI), Mexico City, 2021*  
*Paper published in Springer Lecture Notes in Artificial Intelligence (LNAI) proceedings.*