Sanjanaa G V

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Education

Degree	Institution	%/CGPA	Year
Master of Technology. (Computer Science & Engg.)	Indian Institute of Technology, Madras	8.82	2023
Bachelor of Engg. (Electronics & Comm. Engg.)	RNS Institute of Technology, KA	8.78	2019
XIIth Std.	Karnataka State Board for Pre - University	94%	2015
Xth Std.	Central Board of Secondary Education	10	2013

Work Experience

1. Software Engineer, Microsoft (R&D) Pvt. Ltd.: **June 2023 - Present**
- Incoming Software Engineer at Microsoft, Hyderabad

2. Systems Engineer, Infosys Limited: **Aug 2019 - July 2021**
- Developed automation for application health checks and automatic report generation.
- Enhanced existing codes based on requirements & monitored Critical Applications.

3. Research Intern, Siemens Technologies & Services Pvt. Ltd.: **June 2022 - July 2022**
- Worked on a CMTI project to showcase a metaverse experience of industrial machinery through its Digital Twins.
- Worked on the backend to develop an AR/VR app with multiple APIs & API responses.

Projects

1. Towards IndicRASA: Domain-specific conversation systems in Indian languages. **Aug 2022 - May 2023**
Guide: Prof. Mitesh M. Khapra, Team size: 1, AI4Bharat Lab @ IITM *Master Thesis Project*
- Curated benchmarks for domain-specific use cases to show the need for narrow-domain speech recognition systems.
- Developed a narrow-domain speech recognition system with a five-gram classLM TLG model on top of a general ASR to reduce the word error rate in domain-specific conversations in Indian languages.

2. English to Kannada word Transliteration **April 2022 - May 2022**
Faculty: Prof. Mitesh M. Khapra, Team size: 1 *Fundamentals of Deep Learning - CS6910*
- Developed and trained a sequence to sequence Recurrent Neural Network model to transliterate an English word (in Latin script) to Kannada word (in native script) using Gradient descent algorithm with Back propagation through time.
- Explored techniques like Attention, Dropout and Beam Search decoding to improve the seq2seq model.
- Word Level Accuracy : 55.48% | Character Level Accuracy: 98.73% | Dataset: Dakshina Dataset

3. Convolution Neural Network based Image Classifier **April 2022**
Faculty: Prof. Mitesh M. Khapra, Team size: 1 *Fundamentals of Deep Learning - CS6910*
- Explored techniques like Batch Normalization and Dropout to improve the performance of a CNN model.
- Training Algorithm: Gradient descent with Back propagation. | Dataset : iNaturalist Dataset

Scholastic Achievements

- Secured **All India Rank 45** in **GATE CS 2021** with a percentile of 99.95%.
- Selected for Amazon ML Summer School 2022.

Relevant Courses and Technical Skills

- **PG courses:** Advanced Data Structures & Algorithms, Machine learning, Fundamentals of Deep Learning, Artificial Intelligence.
- **UG courses:** Object Oriented Programming using C++, Programming in C, Computer Communication Networks.
- **Languages/ML Libraries/Utilities:** C, C++, Java, Python, SQL, PostgreSQL, ActiveMQ, Spring Boot, Numpy, Keras, Pandas, LaTeX, Git, Eclipse, Visual Studio.

Positions of Responsibility

- **Teaching Assistant:** Computer Organization & Architecture, Linear Algebra & Random Processes, Fund. of Deep Learning.