

# Ananya Sundararajan

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## SKILLS

- **Programming Languages:** Python, C++, Java, C
- **Database & Cloud:** MySQL, PostgreSQL, MongoDB, Azure
- **Libraries:** Scikit-learn, NumPy, Pandas, NLTK, spaCy, OpenCV, PIL
- **Frameworks and Interfaces:** PyTorch, TensorFlow, Keras, Darknet, OpenMP, CUDA, OpenCL

## EDUCATION

**Master of Science in Computer Science/ Oregon State University (3.79 GPA)** **Sep 2021 – Dec 2023**

- **Research:** Engaged in a **Computer Vision-based** research project which involves **Pattern Recognition, Visual Search and Generative AI** for the OSU Department of Wildlife and Conservation Sciences.
- **Courses:** Algorithms, DBMS, ML-Real World Challenges, **Deep Learning, Computer Vision, Natural Language Processing**, Parallel Programming, Information Retrieval.
- **Graduate Teaching Assistant** for **Senior Software Engineering Capstone** course: Effectively managed 12 teams, provided valuable insights and guidance to navigate roadblocks, graded assignments and provided feedback on individual and team progress.

**B. Tech in Computer Science / SRM University (3.72 GPA)**

**July 2016 – May 2020**

Courses: Machine Learning, Data Science, Data Structures, Software Engineering Principles.

## WORK EXPERIENCE

**Graduate Intern (Data Science) / Dell Technologies, USA**

**June 2022 – Sep 2022**

- Built a recommendation engine for the Residency Sales Team, enabling identification of High Potential Customer profiles with an estimated revenue range of \$7M to \$14M.
- This implementation achieved a projected customer retention rate of approximately 25%, significantly enhancing the team's ability to target and engage with lucrative prospects.

**Machine Learning Engineer / KS Smart Solutions, INDIA**

**Aug 2020 – July 2021**

- Developed computer vision and language processing pipelines for Smart-City Analytics project encompassing four major cities in Tamil Nadu, India, utilizing Python, PostgreSQL, and MongoDB.
- Designed Object Detection models to proficiently track license plate and individuals for “License Plate Recognition” and “Intrusion Detection” applications using Keras and TensorFlow that lead to reduction in manual labour while significantly increasing road safety and government revenue.
- Implemented the “Sentiment Analysis” module leveraging text processing and visualization techniques using Pandas, NLTK and Word Cloud to extract key insights from tweets concerning Chennai City Corporation.
- Mentored and supervised two interns by offering guidance in dataset pre-processing and overseeing their daily tasks.

**Data Science Intern / Positive Integers, India**

**Jan 2020 – May 2020**

- Delivered impactful analytical insights for a prominent tire manufacturing firm. Employed exploratory data analysis and predictive modelling with sklearn to extract insights and inform strategic decision-making.

## PROJECTS

- **Hierarchical Intent Recognition**- Developed a Hierarchical Intent Recognizer utilizing BERT with PyTorch to proficiently identify and categorize intent and out-of-scope predictions for diverse input sequences.
- **GoT Story Generation** - Worked with language model employing Sampling and Search techniques to generate contextually relevant phrases with prompts given from renowned TV series “Game of Thrones”.
- **Mission Mangal** - Worked with MARS orbital images to classify into landmark classes, addressing some real-world challenges associated with the data while also undertaking the generation of explanatory insights for model predictions.
- **Fashion Recommender** - Created a Vision-based system for Complementary Outfit Recommendations.

## RESEARCH PUBLICATION

- Published a paper on ‘[Complementary Outfit Recommendation using Deep Learning](#)’ in the International Journal of Emerging Technology and Innovative Research.

## ADDITIONAL

- President of the ‘Association for Computing Machinery for women’ club (ACM-W) at Oregon State University spearheading initiatives to support and empower female students in STEM disciplines.
- Ranked 23rd amongst 5000 participants and got selected for final round in ZS Data Science challenge conducted by ZS Associates, Bangalore.