

Arya Prabhudesai

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Interests: Natural Language Processing, Deep Learning, Machine Learning, Computer Vision

EDUCATION

University of California San Diego

2021 - Present

Master of Science in Computer Science

CGPA: N.A.

College of Engineering Pune, India

2016 - 2020

Bachelor of Technology in Computer Engineering (Honours)

CGPA: 9.84 / 10

- Institute Rank 1 and Branch Gold Medallist

EXPERIENCE

Data and AI Specialist | Signpost India Pvt Ltd, Mumbai, India

Dec 2020 - Aug 2021

- Led the AI team to develop end-to-end systems for data mining and data analytics applications. Utilised tools like **BigQuery**, **Google Data Studio**, **siren.io**, and **KNIME** to preprocess, visualise, and train machine learning models on the data. Designed supervised and unsupervised models in **Python** for **event extraction** from textual data.

Artificial Intelligence Research Intern | Bharatrath, Pune, India

May 2020 - Dec 2020

- Built and deployed a **chatbot** to handle customer interactions and facilitate smooth order placements.

Research Assistant | Nanyang Technological University, Singapore

May 2019 - Jul 2019

- Surveyed the latest advancements in Automatic Text Scoring Systems and developed own model using a novel hybrid Siamese Bi-LSTM network. Published the research and the results at IEEE TALE 2019

Deep Learning Research Intern | Mobiliya Technologies, Pune, India

May 2018 - Jul 2018

- Studied and reviewed libraries like **SpaCy** for creation of language models. Implemented **Natural Language Processing** models and libraries for Indian regional languages. Presented and published a research paper at the Springer IBICA-WICT 2018

SELECTED PROJECTS

Face Liveness Detection Against 2D Spoofing Attacks using Deep Learning

Aug 2019 - Oct 2020

- Created a novel 2D spoofing attack dataset of 1440 pictures which incorporated 5 spoofing attacks. Trained hybrid multi-stream **Convolutional Neural Network** models in **Keras** on our dataset. Attained very low error rates (close to 0.0) when tested on a publicly available dataset.

Automatic Short Answer Scoring

May 2019 - Jul 2019

- Implemented a hybrid **Siamese Bidirectional-Long Short Term Memory** network with incorporation of feature engineering for the ASAG task. Achieved a Pearson correlation coefficient of 0.655 on the Mohler dataset.

Chatbot for College of Engineering Pune Website

Aug 2018 - May 2019

- Collaborated to implement a chatbot application for the COEP website to respond to queries about the campus. Used tools such as **Stardog** for data warehousing, and **Recurrent Neural Networks** for training the model

Document Ranking System for Hindi Language using Deep Learning

May 2018 - July 2018

- Generated Hindi language word embeddings using a Deep Learning based Negative Sampling Architecture in **Python** and created a ranking system for Hindi documents using a weighted tf-idf scheme. Investigated the performance of the system using **t-SNE visualisations**.

ADDITIONAL SKILLS

Languages: Python, C, C++, Java, SQL

Libraries and Platforms: TensorFlow, pandas, NumPy, SciPy, Matplotlib, PyTorch, Caffe, NVIDIA DIGITS

Selected Coursework: Artificial Intelligence, Natural Language Processing, Data Science

Certifications: Deep Learning A-Z : Hands-On Artificial Neural Networks - Udemy,

ADDITIONAL INFORMATION

- Organised and conducted a seminar on "International Research Internships" for students at COEP 2019
- Class Rank 1 and Best Outgoing Student, Marathwada Mitramandal's Junior College of Science 2016
- Class Rank 1, Vidya Valley School Pune 2014
- Selected among 30 students from Pune for the **Infosys** Catch Them Young training program 2012