

SHRI VIDHATRI M M

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[GitHub](#) | [Linkedin](#)

EDUCATION

International Institute of Information Technology, Hyderabad
B.Tech + MS Dual degree Computational Natural Sciences *GPA: 7.32*

Gachibowli, Hyderabad
July 2019 - Present

Kendriya Vidyalaya
AISSE (PCMB) - 94%, AISSE - 10/10 CGPA

Kalpakkam, Tamil Nadu
Apr 2007 - Jun 2019

EXPERIENCE

BARC (IGCAR) | R&D Intern

Kalpakkam, Tamil Nadu | May 2022 - Aug 2022

- Development of sensor for monitoring the integrity of the lubrication system of heavy-duty pumps in nuclear reactors, Design of a three-level Dashpot oil level measurement system, Design of a self-powered temperature monitoring device for decay heat removal system in nuclear reactors:

IIIT H | Research Assistant

Hyderabad, India | Aug 2021 - Dec 2021

- Worked with Dr Tapan K Sau for a DFT study to sense multiple gases with novel nanomaterial combinations using Gaussian software.

GTM Buddy | ML Research Intern

Hyderabad, India | Jul 2021 - Aug 2021

- Full-time intern with the Data Science team at GTM Buddy assigned to work in the "Custom Named Entity Recognition Model" in Natural Language processing

IIIT H | Teaching Assistant

Hyderabad, India. | Jul 2021 - Aug 2022

- Headed tutorials and doubt-clearing sessions for students and managed course timelines with distinguished professors for Chemistry and Science Laboratory under Nanoscience specialization.

SKILLS

Programming Languages: - python, c++, javascript, c, latex, bash, SQL
Libraries/Frameworks: - pandas, spacy, Scikit-Learn, Matplotlib, NumPy, PyTorch, Keras, scrapy
Tools / Platforms: - gaussian simulation software, Multiwfn, Jupyter notebook, git, Matlab

PROJECTS / OPEN-SOURCE

Deep Neural network for image classification | [Link](#)

Build and train a deep L-layer neural network, and applying it to supervised learning *Numpy, Matplotlib, Scipy*

A Hierarchical Model of Reviews for Aspect-based Sentiment Analysis using Bi-LSTM | [Link](#)

Numpy, CSV, pickle, pytorch, matplotlib

An NLP entity model on Amazon reviews using SpaCy | [Link](#)

Creating a named entity recogniser using the natural language processing package offered by spaCy *Pandas, Numpy, Spacy, Keras*

Web scraping of clinical trial registries | [Link](#)

A project on web scraping various clinical trial registries and converting them to a usable format *beautiful soup, scrapy, pup, bash, javascript*

Analysing depression from user's social network footprint | [Link](#)

Using belief networks and Markov random fields to propagate deviant behaviour *NLP, PyPI, pandas, pybnn*

Tour management DBMS | [Link](#)

A database system made for supporting a tour management system in a local area, a predominantly backend code

Institute attendance management system

A software design paper using AGILE software development principles

CERTIFICATIONS

- Neural Networks and Deep Learning - Coursera.
- KVPY - SX (Gen) Fellowship (Rank 1402): 2018 - IISC

HONORS & AWARDS

APEX mentor 2022 - IIITH