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# Shreyas V

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## SKILLS

**Tools and Languages** Python, Git, LaTeX, Flutter, ReactJS, C, MySQL  
**Quantitative Research** Numpy, Pandas, scikit-learn, PyTorch, Tensorflow, Machine Learning  
**Communication** English, Hindi, Kannada, Sanskrit

## TECHNICAL EXPERIENCE

**Intern** Jun 2023 — Present  
*Deep Forest Sciences* Remote

- Contributed to **open-source** drug discovery toolkit - **Deepchem**
- Migrated** models to **PyTorch**, boosting user base by **92%**
- Building Tools for **AI aided Drug Discovery**

**Student Researcher** 2022 — Present  
*APPCAIR, Birla Institute of Technology & Science, Pilani* Goa

- Examining** the usage of **Large Language Models** to **generate novel molecules for drug discovery** and predict their **synthesizability**
- Devised** deep learning methods to Predict **Protein Residue binding**
- Surveyed the usage of **BERT** and **Transformer** based architectures to predict Protein Residue binding locations

**Research Intern** 2021 — 2023  
*Amrita Vishwa Vidyapeetham* Bangalore, Karnataka

- Published a Paper Titled "**Speech to Equation Conversion using a PoE Tagger**"
- Built a **Novel architecture** to deal with variability in the way math equations are spoken

**Data Science Intern** Jun 2022 — Aug 2022  
*Skan.ai* Bangalore, Karnataka

- Explored and implemented Data anonymization techniques using Machine Learning
- Developed AI/ML pipeline for real time data anonymization** for process mining resulting in **30% performance improvement**

**Summer Intern** Jun 2022 — July 2022  
*Central Electronics Engineering Research Institute, Chennai* Remote

- Remote health workers lacked offline heart attack prediction tools.
- Developed** an AI app for smartphones, **working without internet**, boosting timely interventions

**Research Intern** Feb 2022 — May 2022  
*Pixis.ai* Bangalore, Karnataka

- Optimised Algorithmic Trading** App to identify **arbitrage opportunities** to do a round trip trading with different currencies from **30 min to 2 sec**

**Intern** Jun 2018 — Jan 2019  
*Cisco* Bangalore, Karnataka

- Worked with Cisco and a group of 5 people to build **Solan**
- A web application that aims to promote learning by crowdsourcing the process of making question banks.

## EDUCATION

**BE Computer Science**, Birla Institute of Technology and Science, Pilani – Goa Campus 2021-Present

**MSc Chemistry**, Birla Institute of Technology and Science, Pilani – Goa Campus 2020-Present

*Sri Kumarans Childrens Home CBSE* 2008 — 2020

## PUBLICATIONS

**V. Shreyas** and A. Swati, "Predicting ATP binding sites in protein sequences using Deep Learning and Natural Language Processing" *3rd Annual AAAI Workshop on AI to Accelerate Science and Engineering (AI2ASE)*, 2024.

P. Basa Pati and **V. Shreyas**, "Speech to Equation Conversion using a PoE Tagger," *2022 IEEE 7th International conference for Convergence in Technology (I2CT)*, 2022, pp. 1-4, doi: 10.1109/I2CT54291.2022.9824252.

## PROJECTS

**Metamorph - Generative AI** May 2023 — Present  
Building an **emotionally responsive Humanoid** bot with **knowledge capture**, **speech text generation** using Generative Large Language Models

## ACTIVITIES

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### **ML Lead, Google Developer Student Clubs, BITS Goa**

2022 — 2023

- Guided a group of 25+ ML enthusiasts , conducted weekly ML training sessions
- Organized hackathons , mentored in ML model building , and fostered exploration in ML research.

### **Sub-Coordinator, Srutilaya, BITS Goa**

2022 — 2023

- Awarded Certificate of Recognition by the Chief Minister of Goa for Performing a cultural show in the QS India Summit 2023, held in Goa.
- Organized various classical concerts and Led a team of 25+ to bring in Indian Oil and First Edition Arts as sponsors for the event Sursangam which had a footfall of 500 people and 300 Live-stream attendees . Increased revenue of the club by 100

## CERTIFICATIONS

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**Machine Learning** *Stanford University, Coursera. May 2022*

**Neural Networks and Deep Learning** *DeepLearning.ai, Coursera. May 2022*

**Natural Language Processing with Deep Learning** *Stanford University. May 2022*

**Fundamentals of Accelerated Data Science with RAPIDS** *Nvidia DLI. Issued July 2021 Certificate*

**Python 3 Programming Specialization** *University of Michigan, Coursera. December 2020*

**Introduction to Artificial Intelligence (AI)** *IBM, Coursera. Issued November 2020 Certificate*

**What is Data Science?** *IBM, Coursera. Issued October 2020 Certificate*