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Shreyas V

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LinkedIn: shreyas-v1

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**
- **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

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.
V. Shreyas and A. Swati, Predicting ATP binding sites in protein sequences using Deep Learning and Natural Language Processing *Under Review*

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

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

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