

Pranav Balaji

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EDUCATION

BITS PILANI

B.E. COMP. SCI. & ENG.
2019 - 2023 | Hyderabad, India

COMPETITIONS

AMAZON ML CHALLENGE

2nd Position in India | Apr 2023
Out of 26,000 participants from top universities • GitHub: //AmazonML

HACKON WITH AMAZON

1st Position in India | June 2021
Out of 2,000+ participants from top universities. • GitHub: //vFit

SKILLS

TECHNICAL

Python • PyTorch • NumPy
SQL • Pandas • Dask
Flask • MySQL • React.js

SOFT

Entrepreneurship • Team work
Leadership • Proactivity
Listening • Communication

CERTIFICATIONS

MACHINE LEARNING

Coursera | 11 weeks | MATLAB

DEEP LEARNING

Coursera | 17 weeks | TensorFlow

GANS

Coursera | 4 weeks | PyTorch

EXTRA-CURRICULARS

CLUBS

SANSKRIT AND FOREIGN LANGS.

Japanese div. Lead | 2020 - 2021

HOBBIES

Scuba diving (Advanced Open Water certified) • Origami • Zoning out • Speedcubing

WORK EXPERIENCE

CO-FOUNDER OF VERBALIA | INRIA STARTUP STUDIO

Oct 2023 - Oct 2024 | Sophia Antipolis, France

- One of the two project heads for Verbalia, an AI for automating video creation.

RESEARCH INTERN | INRIA

Feb 2023 - May 2023 | Sophia Antipolis, France

- Undergraduate thesis: Generalizable Deepfake Detection under Dr. Antitza Dantcheva and Dr. Abhijit Das
- Used contrastive and multi task learning to detect deepfake videos. Led to 2 publications

ML INTERN | WADHWANI AI

Apr 2022 - July 2022 | Remote

- In partnership with the Indian Central TB division on the Tuberculosis Adherence project which aims at predicting treatment outcomes for patients
- Addressed the loss-metric mismatch and experimented on data corruption

PROJECTS

SIGN LANGUAGE TRANSLATION | NLP • TRANSFORMERS • CV

March 2022 - Apr 2022 | PyTorch • HuggingFace

- Led a team of 6
- Processed video sequences containing German Sign Language and produced translated German text. Pre-trained T5 transformer was fine-tuned.

TRANSFORMER CONTINUAL LEARNING | NLP • TRANSFORMERS

Oct 2021 - Dec 2021 | PyTorch • HuggingFace

- Led a team of 3
- For the chosen problem of paraphrase generation, significantly reduced catastrophic forgetting on pre-trained tasks after fine-tuning

DODO SHOWS | FULL STACK WEB APP

Feb 2021 - Apr 2021 | Flask • MySQL • React.js • Heroku

- Led a team of 4
- Built a web app that incorporates functionality of IMdB and BookMyShow; Movie booking with categorical (private/public) list management along with social elements - Adding friends and leaving reviews

PUBLICATIONS

- [1] P. Balaji, A. Das, S. Das, and A. Dantcheva. Attending generalizability in course of deep fake detection by exploring multi-task learning. *ICCVW*, 2023.
- [2] S. Das, T. Jain, D. Reilly, P. Balaji, S. Karmakar, S. Marjit, X. Li, A. Das, and M. S. Ryoo. Limited data, unlimited potential: A study on vits augmented by masked autoencoders. *WACV*, 2024.