Yashwanth M

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	8.44 (Current)	2018 - Present
Senior secondary	Karnataka board	94.16%	2018
Secondary	CBSE board	10.0	2016

Experience

- **Research Internship at Chubu University, Japan** *May 2020 - July 2020*
  Prof. Yuji Iwahori, Chubu University
  Worked on the detection and segmentation of Mediastinal Lymph Nodes from the CT scan images. Designed 3D CNNs and a lightweight algorithm that achieved the state of art results for the detection of Lymph Nodes.

Projects

- **Research Assistant (Coding Club IIT Guwahati):** *January 2021*
  bit.ly/36ZwALt
  - Developed a website using Flask that is able to answer the given questions from the text using the pre-trained Bert model for question answering.
  - It is able to scan PDF files using OCR and answer questions from the extracted text. It can also answer questions by searching for relatable text in Wikipedia.

- **Fake News Detection (Techivence IIT Guwahati):** *March 2020*
  bit.ly/3jeBw42
  - Applied fine-tuned Bert model to get state of the art accuracy in LIAR PLUS and custom datasets made from Media Charts and Politifact to detect fake political news.
  - Also identified click baits and fake articles and deployed it using tensorflow.js.

- **Face Generator (Techivence IIT Guwahati):** *March 2020*
  bit.ly/3fusn57
  - Developed a tool that generates new faces based on a given set of faces using pre-trained Style GAN.
  - It can generate faces with stochastic variations (e.g., freckles, hair), and it enables intuitive, scale-specific control of the synthesis for generating images.

- **Plant Species Identification (ML Hackathon Kriti):** *October 2019*
  bit.ly/32h5EWk
  - Developed a custom model similar to VGG16 for plant species identification from their leaf images.
  - It got an accuracy of 88 % on the test set.

Technical skills

- **Programming languages:** C, C++, Python, Matlab
- **Python Libraries:** Tensorflow, Keras, Pytorch*, Pandas
- **Web technologies:** HTML, CSS, Django*
- **Operating system:** Windows, Linux*
  * Elementary proficiency

Key courses taken

- Data Structures and Algorithms
- Deep Learning
- Probability and Random Process
- Machine Learning
- Linear Algebra
- Introduction to Computing

Positions of Responsibility

- **Machine Learning Head, Coding Club IIT Guwahati** *May 2020 - April 2021*
- **Core team member at IITG.ai** *August 2019 - April 2020*
- **Core team member at creatives, Cepstrum** *April 2019 - April 2020*
- **Hostel Representative, Cepstrum** *August 2018 - April 2019*

Achievements

- **Inter IIT 2021:** Secured 1st position in Inter IIT Data Science challenge.
- **Cascade Cup:** Secured 3rd position in Cascade Cup a Data Science Hackathon among 2000+ participants in India.
- **Machine Learning Hackathon:** Secured 3rd position in the Inter Hostel Machine Learning Hackathon
- **JEE 2018:** Secured **AIR 1365 (Mains)** and **AIR 1284 (Advanced)**
- **Karnataka CET 2018:** Secured 52 nd rank in the state