B VINEETH RAJ

Gender: Male

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Educational Qualifications:

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2017-2021	B.Tech Electronics and Communication Engineering	NIT Trichy	6.36
2017	Class XII	Velammal Matric Higher Secondary School Panchetti	94.58%
2015	Class X	Velammal Matric Higher Secondary School Panchetti	99%

Academic Achievements:

- **Winner of Software Domain** in TransfiNITT 2020 , an annual Intra NITT Hackathon.
- Bagged **67th place**(out of 2.5k people) in the **Pulmonary Fibrosis Progression** competition(a deep learning competition) held by Open Source Imaging Consortium(OSIC) in Kaggle.
- Completed Udacity's **Intro to Machine Learning and Machine Learning Engineer** course and got a certificate.
- Cleared Regional Maths Olympiad(RMO) and appeared for Indian National Mathematics Olympiad(INMO) conducted by Homi Bhaba Centre Of School Education(HBCSE)
- Secured an AIR-11 in International Olympiad Of Mathematics conducted in 2010 by SilverZone Foundation
- Secured an AIR-54 in Student Talent Reward Test(START) conducted by Resonance in 2011.
- Secured a State Rank Of 9 in International Olympiad Of Science conducted in 2011 by SilverZone Foundation.
- Participated in South Indian Maths Olympiad (SIMO) and South Indian Science Olympiad(SISO) final level conducted by SIMO Education in 2011, 2012, 2013, 2014 and got a certificate for **Exceptional** and **Outstanding** performance.
- Participated in National Level State Science Talent Examination(NSTSE) conducted by Unified Council in 2013 and 2014 and got a certificate and very good performance.

Work Experience

- **Associate Solutions Architect at IHS Markit**   July 2021-Feb 2022
    - Worked with the Counterparty Manager-Onboarding Accelerator.
    - Worked on the backend side with java and spring.

Project Work/Internship Experience:

- **Summer Internship at Botter Solutions Pvt. Ltd.**   May 2020-June 2020
    - Made an Instagram Influencer Recommender System.
    - Scraped data from public profiles under various categories like Fashion. Food, Travel, etc..
    - Then we analysed each profile and we also checked the posts and analyzed whether it was a deepfake or a real one using efficient-net models.

- We also analyzed the comments and checked whether it was a bot generated comment or a comment by a real person using transformers such as BERT and RoBERTA.
- Finally this data was given to the main recommender model which is a multi-criteria Colloborative Filtering Model and we got outstanding result and thus we made it look like a score card.

- **OSIC - Pulmonary Challenge([blog](#) published in analytics vidhya)** Jul 2020-Oct 2020
  - Predicted the Forced Vital Capacity(FVC) for a patient based on CT Scan of their lungs and metadata extracted from .dicom files.
  - Instead of predicting the FVC directly we predicted the slope of FVC over a week and predicted the FVC from that slope with some random intercept value and this gave us the mean absolute error of 2.45
  - The models we used are efficientnet-B5 for ct scan (computer vision) and ElasticNet, RidgeRegression for metadata which was trained for about 855 epochs and this ensemble gave us a competition score of -6.8487 landing in 67th place silver position.
- **NFL Helmet-Impact Detection** Dec 2020-Jan 2021
  - Detected the helmet impacts that occur in the field from the given videos.
  - Firstly we classified and detected whether the image in the videos was helmet or the ball using yolov5 and efficientdet-d5
  - Next we predicted whether the helmet was an impact or not i.e. whether 2 helmets collided or not. This was done using yolov5, efficientdet- d5,d4.
  - Finally these models were ensembled using weighted box fusion ensemble and we got a Post-Processor-Kernel-Desc score of 0.20

Skills

1. **Programming Languages :** C, C++, Java, Python, R.

2. **Engineering Softwares :** Matlab, ProteusVSM, JupyterNotebook, Arduino IDE.

3. **Deep Learning Frameworks :** Tensorflow, Keras, PyTorch, Caffe.

4. **Java Frameworks :** Spring, Springboot.

5. **Big Data Tools:** Spark, Hadoop, MapReduce, Hive.

6. **Visualization Tools :** Matplotlib, Seaborn, Plotly, Dash.

7. **Other Softwares :** MS Word, Powerpoint, Excel, SqlServer, Postgresql.

8. **Operating System :** Windows, Linux and Mac.

Extracurricular Activities

Sports Activites:
- Runner up in Football under Junior Category conducted by Velammal Matric Higher Secondary School Panchetti for the annual sports day.
- Won inter school chess competition conducted in 2007 by School of Chess.
- Won TN State Level open chess championship conducted in 2007 by Kilpauk Chess Centre.

Others:
- Kaggle 4x Expert([kaggle profile](#))
- My all medium articles published in Analytics Vidhya ([Medium profile](#))
- [Linked In profile](#) , [Github-profile](#)