

B VINEETH RAJ

Gender: Male

Date of Birth: 30/09/1999

Email: vineebala99@gmail.com

Contact: +91-8072761849



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 Bhabha 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-Mar 2022
 - Worked with the Counterparty Manager-Onboarding Accelerator.
 - Worked on the backend side with java and spring.
- **Software Engineer** May 2022-Apr 2023
 - Worked on the backend with Java, Springboot, Angular.
 - Developed a crud based full stack application using Springboot and Angular (Explained much about this in the project section)

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 Collaborative 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
 - **Hospital Management Application** Nov 2022-Nov2022
 - Developed a springboot microservice based application
 - Used spring security and password hashing for login purposes
 - Used SHA-256 hashing and salt for keeping password secure in MySQL database.
 - Developed Frontend using Angular and Bootstrap
 - Backend unit testing was done using junit
 - Angular testing was done using jasmine karma

Skills

1. **Programming Languages** : C, C++, Java, Python, R.
2. **Engineering Softwares** : Matlab, Proteus VSM, JupyterNotebook, Arduino IDE.
3. **Deep Learning Frameworks** : Tensorflow, Keras, PyTorch.
4. **Java Frameworks** : Spring, Springboot, Microservices, Eureka
5. **FrontEnd Frameworks** : Javascript, Typescript, Angular, React
6. **Big Data Tools**: Spark, Hadoop.
7. **Visualization Tools** : Matplotlib, Seaborn, Plotly, Dash.
8. **Other Softwares** : MS SQL, SqlServer, Postgresql.

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](#))
- [LinkedIn profile](#) , [Github-profile](#)