Parth Dhabalia

B.Tech. (Electrical Engineering)

Indian Institute of Technology Tirupati, India

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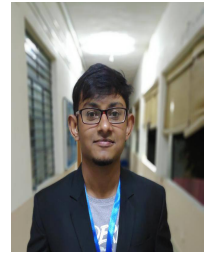
Education Details

Program	Institute	Year	%/CGPA
B.Tech. (Electrical Engineering)	IIT Tirupati	2020	7.4/10
Higher Secondary Education (RBSE)	Shiv Jyoti Sr. Sec. School, Rajasthan	2016	83.6%
Secondary Education (GSEB)	Saint Mary's School, Rajkot, Gujarat	2014	83.5%

Areas of Interest

- Machine Learning, Data Analytics, Medical Image Analysis, Database Management System

Technical Proficiency

Programming Languages	:	Python, Java
Softwares	:	MATLAB, Labview, Vivado 2.6, Arduino, Eclipse

Experience

- **SDE Intern, BT-CoE Department, Cyient Ltd.**
  (**Guide :** Mr. Murali Ayyagari, DGM)   **[June'18 - July'18]**
    - This project aimed to migrate users legacy data stored in SQL servers to Elasticsearch server. It aimed to create a smart GUI for users such that they can enter the name of database, provide some information regarding database as asked and the migration of the data remained just a click away. This had become possible with the help of Java High Level REST Clients, which allowed user to communicate with ES and operate on its document-based database. The only reason of prioritizing ES over SQL was that the search engine in the former is way faster than SQL which enables user to search data in a large pool easily and helps the application work efficiently.

- **Data Analytics Intern, NBA Department, Cyient Ltd.**
  (**Guide :** Mr. Murali Ayyagari, DGM)   **[May'19 - July'19]**
    - "UAV based crop growth monitoring", aimed to improve the farming standards by capturing high resolution images and geo-tagging them on the basis of health of crop. Image processing techniques like mosaicing were used to join different photos and impose them on maps. The KML files generated after geo-tagging, would be accessible to the corresponding farmer in the mobile app. The whole project mainly revolved around precision agriculture.

Projects

- **Prabandh**
  (**Guide :** Mr. Ramesh Krishnan, IIT Tirupati)   **[Nov'17 - Jan'18]**
    - **Abstract**: An inventory management software for workshops conducted at IIT Tirupati that managed the stock of machines and tools as per the requests of user.

- **Detection of Counterfeit Currency using Image Processing**
  (**Guide :** Dr. Kalidas, Assistant Professor, IIT Tirupati)   **[Mar'18 - Apr'18]**
    - **Abstract**: GUI designed in JAVA, enabled user to upload images of currency and MATLAB was used to segment image and extract the required features for detection of legitimacy of the currency.

- **CBC of the given blood sample using Image Processing**
  (**Guide :** Dr. Ramakrishna Gorthi, HOD (EE), IIT Tirupati) **[Aug'18 - Nov'18]**
  - **Abstract**: This mini project aimed to develop Matlab Programs which can classify different blood cells into RBC, WBC, plasma, etc. and count them using fundamental image processing algorithms. It increased the accuracy of counting blood cells compared to the legacy method of manually counting the cells.

- **Converting Image to Text Document using Image Processing**
  (**Guide :** Dr. Ramakrishna Gorthi, HOD (EE), IIT Tirupati) **[Jan'19 - Apr'19]**
  - **Abstract**: This mini project aimed to pre-process, segment, and recognize the letters in an image using different classification algorithms and Image Processing and store the information in .txt file.

- **Business Model Proposals** **[Dec'18]**
  - **Abstract**: The business model 'Using PET for 3D Printing' was proposed at 8th Inter IIT Technical Meet. The idea was to make use of deflection temperature to convert waste plastic into raw material for 3D printing.

Relevant Courses

- Digital Signal Processing
- Communication Systems
- Machine Learning for Image Processing
- Deep Learning*
- Advanced communications*
- Medical Imaging*

* To be completed in December 2019

Achievements

- Secured 99.99 %ile in JEE Mains among 1.1 Million Students.
- Secured All India Rank 5865 in JEE Advanced among 0.2 million students.
- Qualified for Grand Finale of Smart India Hackathon 2018.
- Awarded Consolation - Periloscope Challenge at TechFest 2018, IIT Bombay.
- Represented IITT at IITGn for Students Leadership Conclave 2018.

Positions of Responsibility

Placement Representative, Electrical Engineering'20 **[Aug'19 - Present]**
- Overseeing the smooth conduction of placements for the batch of 2020.

Member of Technical Affairs Council **[Aug'18 - Apr'19]**
- The Council oversaw the activities and deveopment of IITT in technical front.

Sponsorship Head, Tirutsava 2018 **[Sep'17 - Mar'18]**
- Sponsorship Committee was responsible for finding the investors for Tirutsava 2018.

Extra Curricular activities

- Active volunteer of Navajeevan Blind Schools under National Service Scheme programme at IIT Tirupati.
- Participated in MarkMania 2019, IIM Lucknow.
- Stood first in line following bot competition, Bot Rivalry, Anfang 2k17, IIT Tirupati.
- Qualified for 2nd Round of Hero MotoCorp Campus Challenge.

Hobbies and Interests

- Table-Tennis
- Indian Politics