

# ANAND THEERTHA NAKHATE

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## EDUCATION

Degree	Institute / Board	Year	CGPA / %
B.E. in Computer Science and Engineering	BITS Pilani Goa	2017 - 2022 (Expected)	9.37 / 10 <a href="#">↗</a>
M.Sc. in Economics	BITS Pilani Goa	2017 - 2022 (Expected)	9.37 / 10 <a href="#">↗</a>
Telangana Board of Intermediate Education	FIITJEE Junior College	March, 2017	98.7 % <a href="#">↗</a>
Telangana Board of Secondary Education	Dilsukhnagar Public School	March, 2015	9.8 / 10 <a href="#">↗</a>

## Skills and Expertise

- **Courses/Electives:** Data Structures and Algorithms, Database Systems, Object Oriented Programming, Probability and Statistics, Econometrics, Operating Systems, Information Retrieval, Discrete Structures of CS, Computer Architecture
- **Technical Proficiency:** C++, Python3, Java, SQL
- **Certifications:** Neural Networks and Deep Learning, Convolution Neural Networks (Coursera)

## INTERNSHIP/WORK EXPERIENCE

### Summer Research Intern | Indian Institute of Remote Sensing, ISRO [↗](#)

May 2019 - July 2020

- **Improvement of Software for LiDAR Data Analysis - DHAROHAR**
  - Improvised and tested software under development for LiDAR Data Analysis using Python, PostgreSQL, C++, Qt.
  - Integrated modules for GLCM Texture Extraction, Database Storage and Retrieval of 3D Point Cloud Data
- **Satellite Image Segmentation using UNet Deep Learning Architecture**
  - Trained deep learning models in Keras using transfer learning in a low resource environment, which was later adopted to the wider team for thesis
  - Achieved 70% accuracy and Intersection over Union(IoU) of 0.61 on Semantic Segmentation of urban features from high resolution, multi-spectral satellite images on scarce data

### Equity Research Intern | Karvy Stock Broking [↗](#)

June 2018 - July 2018

- Tested and applied different technical and derivative models in the real-time stock market.

## PROJECTS

### Network visualisation of Global Equity Market Integration - Graph Theory, Econometrics

- Constructed a Graph Network and MST Network with emerging markets representing nodes, and the Pearson correlations between stock market indices representing the edges and used centrality measures such Importance coefficient and Clustering coefficient to identify financial centers
- Identified the financial clusters in markets that strongly impact portfolio diversification decisions and contagion effects during a crisis using stata and performed clustering of the countries based on economic indicators

### Economic Policy Uncertainty and Stock Market Volatility in Indian Stock Market - Econometrics

- Studied the relationship between the global and the domestic GPU in the macroeconomic variables considering the direction of the movements.
- Utilizing the composite data of GEPU to increment prescient precision. Utilization of a two-system changing model to recognize the effect of EPU on stock returns during typical and high volatility periods.

### Context Based PDF Search Engine [↗](#)

Dec 2020

- Created a PDF search engine that allows users to do a context based search on the document that retrieves the top 10 relevant sentences using **vector space model** and highlights the matches of the information need in the retrieved pages.
- **Technologies Used:** Python, PyMuPDF

## POSITIONS of RESPONSIBILITY

### Teaching Assistant, Department of Economics, FRAM - BITS Goa

Jan 2021 - Present

- Assisting in creating and evaluating projects for the Financial Risk Analytics and Management Course.

### Teaching Assistant, Department of Computer Science, OOP - BITS Goa [↗](#) [↗](#)

Jan 2020 - Dec 2020

- Assisted in creating, conducting and evaluating lab sessions for the Object Oriented Programming Course.

### Teaching Assistant, Department of Economics, DRM - BITS Goa [↗](#)

Jan 2020 - May 2020

- Set up test papers, helped in the evaluation and resolving doubts for the Derivatives and Risk Management Course

### Teaching Assistant, Department of Economics, BAV - BITS Goa [↗](#)

Aug 2019 - Dec 2019

- Helped in evaluation and resolving the doubts of students for the Business Analysis and Valuation Course.

## AWARDS AND RECOGNITIONS

### • Merit Scholarship | BITS Pilani

- Awarded Institute's Merit Scholarship for being in the top 3% of the entire batch of 850 students for the first 5 semesters
- Top 1%: Semester 1, Semester 3, Semester 4, Semester 5. Top 3%: Semester 2.