



# ABHISHEK DNYANESHWAR REVSKAR

Master of Technology  
Department of Computer Science and Engineering  
Indian Institute of Technology, Kanpur

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## EDUCATION

Year	Degree/Certificate	Institute	CPI/%
2021-Present	M.Tech/Computer Science & Engg.	Indian Institute of Technology, Kanpur	8.57/10
2017-2021	B.E./ IT	Government College of Engineering, Aurangabad	7.26/10
2015-2017	HSC(XII)	Rajeshwar Union Jr. College, Badnera	92.00%
2014-2015	SSC(X)	Suman High School, Surat	86.00%

## ACADEMIC PROJECTS

- **Android Malware Detection (CS658A)** | Guide: Prof. Sandeep Shukla (Jan '22 - Apr '22)
  - Developed a web application to detect whether an Android application is benign or malicious.
  - Extracted key features from the decompiled APKs, like **Android Permissions**, **API calls**, and **OPcode sequences**, using open-source reverse engineering tools, viz., **Androguard** and **APKtool**.
  - Trained **SVM**, **Random Forest**, and **ANN** with extracted features to classify an application as benign or malicious with an accuracy of up to **94%**.
- **Query Based Summarization of Ramayana (CS657A)** | Guide: Prof. Arnab Bhattacharya (Jan '22 - Apr '22)
  - Developed a web application that summarizes a Ramayana event based on the user query.
  - Implemented **BM25** document retrieval model to retrieve the most relevant document (event).
  - Used **GloVe**, **FastText**, and **Sentence-BERT** word embeddings to find the sentence vectors for the retrieved document.
  - Generated the event summary from the retrieved document by ranking the most similar sentences using **TextRank Algorithm** and **clustering** the sentence vectors.
- **Cryptocurrency Data Analysis (CS685A)** | Guide: Prof. Arnab Bhattacharya (Aug '21 - Dec '21)
  - Analysed the movement of major indicators of the top 100 cryptocurrencies, like Market Capitalization, Volume, Daily Closing Prices, Returns, etc.
  - Scraped cryptocurrency data and performed data cleaning and data visualization and analysed different features of cryptocurrencies, like **moving averages** and **volatility**, and performed **risk analysis** using **Z-score** on daily returns.
  - Compared the cryptocurrency with the traditional investment options like gold and stocks based on their volatility.
- **Covid-19 Data Analysis (CS685A)** | Guide : Prof. Arnab Bhattacharya (Aug '21 - Sep '21)
  - Analysed the spread of Covid-19 across different levels of the country from the **Covid-19** dataset.
  - Preprocessed the unstructured Covid-19 dataset and used it to predict some qualitative insights like vaccination rates, spreading rates, hotspot regions, and peaks for every district and state in India.
  - Analyzed the vaccination status of different literacy groups, age groups, genders, etc. from the **vaccination** dataset and estimated the duration required for total vaccination in India.
- **Computational Linguistics In Indian Languages (CS657A)** | Guide: Prof. Arnab Bhattacharya (Mar '22 - Apr '22)
  - Performed **tokenization** and **stemming** on the language corpus and implemented IR systems like **Boolean Retrieval System**, **TF-IDF**, and **BM25**.
  - Evaluated word similarity scores using pre-trained word vectors like **GloVe**, **CBOW**, **Skipgram**, and **FastText**.
  - Implemented N-grams models to find the most frequent words, letters, and syllables in the Indian Languages.

## TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python
- **Web Technologies:** HTML, CSS, JavaScript, Bootstrap
- **Libraries/Tools/Frameworks:** Numpy, Pandas, NLTK, Scikit-Learn, Flask,  $\LaTeX$

## COURSES

Introduction to Machine Learning	Data Mining	Information Retrieval
Embedded and Cyber-Physical Systems	Data Structures and Algorithms	Operating Systems
Malware Analysis and Intrusion Detection	Computer Networks	Database Management Systems

## POSITIONS OF RESPONSIBILITY

- **Teaching Assistant:** Programming for Performance (CS610A). (Aug '22 - Present)
- **Teaching Assistant:** Fundamentals of Computing (ESC101). (Aug '21 - Jun '22)

## ACHIEVEMENTS

- Secured **All India Rank 637** in GATE Computer Science 2021 out of 1,01,922 candidates.
- Secured **Global Rank 156** in Codechef Starters (Div-3) and **154** in Codechef Starters (Div-2) (Oct '22).
- Secured **Global Rank 690** in LeetCode Biweekly Contest 86 among 26,000+ participants (Sept '22).
- Current **Global Rank 9,352** among 3,30,000+ users on **LeetCode** (Top **3%**, max. rating 2003).
- Secured **Global Rank 1300** in **Google Kick Start Round-F** 2022 among 10,000+ participants (Sept '22).
- Qualified for **Facebook (Meta) Hackercup 2022** Round-2 (Sept '22).
- Selected for the **Siemens Scholarship Program** during bachelors (awarded to total 150 students across India).