

Tanay Anand

THIRD YEAR UNDERGRADUATE · ELECTRICAL ENGINEERING
Indian Institute of Technology Kanpur

☎ (+91) 97936 71333 | ✉ tanayanand98@gmail.com | tanay@iitk.ac.in | 🏠 tanay1608.github.io | 📱 tanay1608 | 🌐 tanay-anand-iitk

Education

Year	Degree/Certificate	Institute	CPI / %
2020 (expected)	B. Tech. (Electrical Engineering)	IIT Kanpur	8.5/10
2016	AISSE, CBSE (XII)	St. Joseph's School, Shaktinagar	95.4%
2014	AISSE, CBSE (X)	St. Joseph's School, Shaktinagar	10/10

Academic Achievements

- 2016 **All India Rank 689** in Joint Entrance Exam Advanced among a total of 150,000 candidates
- 2016 **All India Rank 494** in Joint Entrance Exam Mains among a total of 1.5 million candidates
- 2015 **Statewise top 1%** in National Standard Examination in Chemistry conducted by IAPT in UP state

Work Experience

Treadwill

Prof. Nitin Gupta, IIT Kanpur

SOFTWARE DEVELOPER INTERN

May 2018 - July 2018

- **Objective :** To facilitate task oriented conversations with a depressed person using a chatbot.
- **Initiatives :** Coded chat modules for the chatbot. Built an FSM model using PyTransitions to facilitate structured flow of conversation.
- Used RASA NLU framework (with Spacy and Sklearn pipeline) which used Sklearn Intent Classifier to classify the intents. For Named Entity Recognition, Conditional Random Field was used by the framework.
- **Impact :** The chatbot will soon be integrated on the **website** which is expected to be used by around 50,000 students from all over the country.

Projects

Spatial Audio Processing

Prof. Rajesh Hegde, IIT Kanpur

RESEARCH PROJECT

May 2018 - Present

- **Objective:** Reproduction of high order Ambisonic recordings over irregular loudspeaker arrays.
- Performed the array decomposition for irregular loudspeaker arrangement by distributing it into symmetric, regular and irregular arrangement and carrying out the convolutions separately using MATLAB.
- Made silicone ears for making the Head Related Transfer Function (HRTF) database similar to CIPIC database. Used Artec Software for 3D scanning of the ear and made a mold of it using that STL file on Autodesk Fusion 360.

Mail Classifier

IIT Kanpur

PROGRAMMING CLUB

May 2017 - June 2017

- **Objective :** Segregate the emails into categories defined by the user using Machine Learning.
- Used the Support Vector Machine Classification Algorithm and achieved an accuracy of 98% on the dataset consisting of emails from the IITK Webmail.

Positions of Responsibility

Head, Startup Development ENTREPRENEURSHIP CELL, IIT KANPUR

Apr. 2018 - Present

- **Initiatives:** Introduced HULT Prize in the campus, with a connectivity of more than 5000 investors aimed at social entrepreneurship.
- Organized and managed 4 pitching competitions for Start-Ups from all over the country. Shortlisted 10-15 teams for each competition from a total of over 150 entries.
- Organized Campus Hangouts, an interactive session bringing successful entrepreneurs, Venture Capitalists, Start-Up Mentors and budding campus entrepreneurs on the same platform.
- Organized entrepreneurial skill development workshops in which more than 100 campus students participated.
- **Impact :** Accelerated the development of 6 new campus Start-Ups by providing mentorship, insight sharing and networking through Venture firms

Skills

Programming C/C++, Python, HTML

Platforms Windows, Linux(Ubuntu)

Utilities MATLAB, Octave, Artec, Autodesk Fusion, Git, \LaTeX , Sublime, Atom, scikit

Relevant Coursework

Introduction to Machine Learning*

Principles of communication*

Microelectronics

Power Systems*

Microeconomics

*: Ongoing Courses

Data Structures & Algorithms

Digital Electronics*

Introduction to Electroics

Introduction to Electrical Engineering

Introduction to Computing

Probability & Statistics

Signals, Systems & Networks

Control Systems Analysis

Linear Algebra

Communication Skills

Extracurricular Activities

- Manager, Entrepreneurial Events, Techkriti (January 2018 - March 2018)
- Senior Executive, Entrepreneurship Cell (March 2017 - March 2018)
- Senior Executive, Outreach Cell (April 2017 - April 2018)
- Participated in Takneek'17, Inter-Hall Technical Competition, and led the hall to victory in the events of Business Club.