



ABHINAV BOHRA

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Education

Year	Degree/Board	Institute	CGPA / %
2018 - Present	B.Tech & M.Tech	Indian Institute of Technology, Kharagpur	9.39/10
2017	CBSE - XII	The New Tulip International School, Ahmedabad	93%
2015	CBSE - X	Maharaja Agrasen Vidyalaya, Ahmedabad	10/10

Academic Achievements

- Secured a Department Change to 'Computer Science & Engg.' with an **Institute Rank 12th among 1465 students.** 2019
- Awarded **Prof. Sunil Kanti Memorial Award** for highest score in 'English for Communication' among 1465 students. 2019
- Among top 0.40% candidates nationally in JEE Main and top 2.02% candidates in JEE Advanced. 2018

Internships

Application of AI in prediction of Software Vulnerabilities | Philips Innovation Campus | Bangalore Apr-June 2020

- Developed **Machine Learning** based software to predict software vulnerabilities for optimizing software testing process
- Achieved an **accuracy score of 0.963** on test set through a **Logistic Regression** model built on top of **tf-idf Vectorizer**.
- Fine-tuned various models like Support Vector Machines, Multinomial Naïve Bayes Classifier using Sci-kit Learn and Neural Networks (**LSTMs**) using Keras to compare performance in multiclass classification task with **30+ categories**.
- Developed user interface for the toolkit using **HTML5, CSS & JavaScript**, and integrated it with backend using Eel.

Application of 'Machine Learning' in Finance | Prof. Ankur Sinha | IIM Ahmedabad May-July 2019

- Implemented a **topic modelling algorithm** which filters 'Finance' related articles from given set of news articles.
- Successfully extracted 1,000 articles from CNN-Daily Mail dataset using **NLTK** with a **conversion rate of 72.6%**

Projects

Google-Audio Sensitivity Extension | Prof. Mainack Mandal | IIT Kharagpur Feb 2020-Present

- Worked on understanding **user's privacy perceptions** due to information overload in Google data dashboard.
- Created a **plugin using JavaScript** to extract user's Google dashboard data without requiring the user to upload it.
- Currently working on developing a **Deep Learning Model** to classify audio files as sensitive or not sensitive.

GrowFast, Smart Employee Management System | Prof. Sudip Misra | IIT Kharagpur Jan-May 2020

- Developed an Employee-HR portal using **Java, JavaFX & MySQL** that helps an organization to manage HR activities.
- Applied principles of **Agile software development** to focus on flexible & quality development, and user satisfaction.

THAT Hearing Assistance and Transcription | Prof. Manjira Sinha | IIT Kharagpur Sep-Nov 2020

- Developed a webapp using **Flask & JavaScript** for improving learning experience of people with hearing impairment.
- Built speech assistance feature for oral skill development and Live Subtitles for class lectures using **Google Speech APIs**

Technical Skills

Programming Languages	C, C++, Python, Java, JavaScript, MySQL, UML, MIPS, x86 Assembly
Libraries/Frameworks	Numpy, Pandas, Sci-kit Learn, Keras, Matplotlib, NLTK (NLP), Django, Flask, OpenCV
Software Packages	Git, Jupyter Notebook, Eclipse, NetBeans, VSCode, MS-Power Point, Tableau

Relevant Courses

Computer Science	Algorithms & Data Structures, Software Engineering, Compilers, FLAT, Probability & Statistics
Artificial Intelligence	Machine Learning, Deep Learning Specialization, Natural Language Processing Specialization

Positions of Responsibility

Business Club, IIT Kharagpur | Head, Data Analytics July 2020 - Present

- Speaker** at knowledge sessions on machine learning algorithms such as **Regression, Decision Trees, Clustering**.
- Organized 1st Int'l Edition of Indian Case Challenge, **Asia's largest** Case Study Competition witnessing **1.7K+ participants**

Extra-Curricular Activities

- Silver Medallist** in Corporate Case Challenge Competition, Techniche - IIT Guwahati (September 2019)
- Silver Medallist** in Open-IIT Case Challenge Competition, IIT Kharagpur (October 2019)
- Member of Rotaract Club of Ahmedabad North:** Played a key role in making available basic educational amenities to **more than 500** underprivileged students of Grade 'B' schools of Ahmedabad through **Share for Care Campaign**.