## **ABHINAV BOHRA**

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## **EDUCATION**

# B.Tech & M.Tech in Computer Science & Engineering INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR, INDIA

**♥** Kharagpur, India

**GPA**: 9.39/10.0

 Coursework: Algorithms & Data Structures, Artificial Intelligence, Machine Learning, Probability & Statistics, Software Engineering, Computer Architecture and Organization, Operating Systems, Computer Networks, Compilers, Database Management Systems

#### **Class XII - Central Board of Secondary Education**

# Apr'16 - Mar'17

**♀** Ahmedabad, India

**Score**: 93%

#### Class X - Central Board of Secondary Education

**Apr'14 - Mar'15** 

♠ Ahmedabad, India GP.

**GPA**: 10.0/10.0

## **INTERNSHIPS**

#### **ADOBE Inc., Research Intern**

May 2021 - Aug 2021 ♥ Big Data Experience Lab, Bangalore

 Worked on automatic generation of responsive and semantic aware documents using multi-modal resources

### **PHILIPS, Software Development Intern**

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

#### **IIM AHMEDABAD, Machine Learning Intern**

May 2019 - Jul 2019 ♥ IIM Ahmedabad, India

 Implemented graph based topic modeling algorithm to extract 'Finance' related articles from given set of news articles

## POSITION OF RESPONSIBILITY

#### **BUSINESS CLUB, Head Analytics**

# July 2020 - Present ♥ II7

**♥** IIT Kharagpur, India

- Speaker at knowledge sessions on machine learning algorithms such as Logistic & Linear Regression, Decision Trees, Clustering etc
- Organized 1st International Edition of Indian Case Challenge, Asia's largest Case Study Competition witnessing 1,700+ participants

## **AWARDS & ACHIEVEMENTS**

- Secured a Department Change to 'Computer Science and Engineering' with Institute Rank 12th among 1465 students in first year
- Awarded Prof. Sunil Kanti Memorial Award for highest score in 'English for Communication' in the institute

## **TECHNICAL SKILLS**

- Areas of Interest: NLP, Deep Learning, Computer Vision, Data Structures, Algorithms, Software Development
- Languages: C, C++, Python, Bash, JavaScript, SQL, Java
- Libraries: PyTorch, TensorFlow, Keras, Sci-kit Learn, Matplotlib, OpenCV, Numpy, Pandas, Django, Flask
- Software Packages: Git, Jupyter Notebook, Eclipse, VSCode NetBeans, MS-Power Point, Tableau

## MAJOR PROJECTS

## Multi-tasking Framework for Emotional Analysis 🗘

Prof. Pawan Goyal

Spring 2021

- Implemented a multi-tasking ensemble framework to jointly learn emotional classification & intensity problems
- Leveraged the representations obtained from training 3 deep NNs (CNN, LSTM, GRU) & built an MLP network on top of it
- Achieved 5.2% increase in accuracy and 0.33 increase in Pearson co-relation score for emotion classification and emotion intensity prediction tasks respectively

#### HAVE: Social e-Commerce Platform (7)

Prof. Samik Sural

Spring 2021

 Developed a Social eCommerce Platform to facilitate 'Team purchase' of online products using Django (python), HTML5, CSS and MySQL

#### THAT, Hearing Assistance & Transcription 🔾

Prof. Manjira Sinha

Autumn 2020

 Developed a WebApp using Flask & JavaScript for improving online learning experience of people with hearing impairment

#### **Google-Audio Sensitivity Extension**

Prof. Mainack Mandal

Spring 2020

- Worked on understanding user's privacy perceptions due to information overload in Google data dashboard
- Built a browser-plugin using JavaScript to extract user's Google Activity dashboard data saving their Internet charges

#### **GrowFast: Employee Management System**

Prof. Sudip Misra

Spring 2020

- Developed an Employee-HR portal using Java, JavaFX & MySQL for managing HR activities efficiently
- Applied principles of Agile software development with a focus on flexible & quality development, and user satisfaction

## **OTHER PROJECTS**

- Peer-to-Peer Chat Application for multiple network users.
  Used TCP as underlying transport layer protocol and implemented select system call through socket programming
- **()** Decision Tree Classifier using ID3 algorithm without off the shelf usi. Performed reduced error post pruning to achieve 1.5% increase in accuracy on test set
- Naive Bayes Classifier Coded Gaussian & Multinomial Naive Bayes algorithm from scratch. Applied Principal Component Analysis for feature extraction
- 🗘 tinyC Compiler Wrote a Lexical Analyser in Flex, Semantic Parser in Bison and Machine Independent Code Generator