# ABHINAV BOHRA

Pre-final year undergraduate, Department of Computer Science & Engineering, IIT Kharagpur, India



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## abhinavbohra.technology

## **EDUCATION**

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

# Jul'18 - Present

**♥** Kharagpur, India

**GPA**: 9.39/10.0

• Coursework: Machine Learning, Probability & Statistics, Algorithms and Data Structures, Software Engineering, Computer Architecture and Organization, Compilers, Operating Systems, Computer Networks, Database Management Systems Formal Language & Automata Theory

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

Ahmedabad, India

**Score**: 93%

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

## Apr'14 - Mar'15

**♀** Ahmedabad, India

**GPA**: 10.0/10.0

# **INTERNSHIPS**

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

• Currently working on 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 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**

III July 2020 - Present

**♥** 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, 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 Goval

- 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) to achieve 2.3% increase in accuracy

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

Prof. Samik Sural

Spring 2021

• Developed a Social eCommerce Platform to facilitate 'Team purchase' of E-Commerce products using Diango, HTML-CSS and MySQL; offering 7 end-user functionalities

#### THAT, Hearing Assistance & Transcription 🗘

Prof. Manjira Sinha

Autumn 2020

 Developed a WebApp using Flask & JavaScript for improving 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 plugin using JavaScript to extract user's Google dashboard data without requiring the user to upload it

# 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
- O 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