Vaibhay Chandra

B.Tech - Computer Science and Engineering Indian Institute Of Technology Indore My Portfolio page +91-7470377825 chandravaibhav65@gmail.com \square

EDUCATION

Degree/Certificate	${\bf Institute/Board}$	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology Indore	8.89	2019-2023
Senior Secondary	CBSE Board	90.6%	2019
Secondary	ICSE Board	90.83%	2017

EXPERIENCE

• Arcesium May 2022 - July 2022

Software Developer Intern

Hyderabad

- Developed a key algorithm for validation of SWIFT messages using backtracking algorithmic paradigm
- Implemented the algorithm in modular fashion using the principles of OOPS using JAVA and Spring
- Integrated database to avoid using server side memory for static data using PostgreSQL and incorporated caching
- Exposed the algorithm through an API to be used by other teams and wrote the documentation

PROJECTS

• My Movies

March 2021 - April 2021

Tech Stack: HTML, CSS, JavaScript, ExpressJS, PassportJS

Github & Webapp

Github ☑ Webapp ☑

- Developed the backend as well as database of the web app using NodeJS and MongoDB
- Implemented username-password mechanism as well as Google OAuth for easier authentication
- Included functionalities such as searching for movies, watching trailers, adding reviews, marking favourites
- Library Management System

February 2021 - March 2021

Tech Stack: HTML, CSS, JavaScript, SQL, BootStrap

- Developed a multi-purpose webapp for library management using NodeJS and **jQuery**
- Designed the Entity-Relation Diagram and implemented it using MySQL
- Implemented various consumer services like searching books, placing hold, making friends, taking fines, etc.
- Sarcasm Detection using Multi-modal approach (Bachelor Thesis Project)

January 2022 - December 2022

Tech Stack: Python, Keras, Tensorflow, Pandas, Numpy

<u>Github</u>௴

- Developed an end-to-end pipeline for sarcasm detection for multi-modal data (text, video and audio data)
- Used BERT features to feed into statistical machine learning methods as well as Recurrent Neural Networks
- Explored data augmentation through backtranslation between english and french language
- Explored additive, multiplicative and **cross-attention** modality combination techniques
- Optimisation and Parallelization of Matrix Polynomial Computation Tech Stack: C++, OpenMP

 $November\ 2021\ -\ December\ 2021$

 $\underline{ ext{Github}}$

- Optimized the algorithm to compute Matrix Polynomials using Linear Algebraic algorithms like Paterson Stockmeyer algorithm, Schur Decomposition, Schur - Parlett Recurrence and Sylvester Equation solver
- Improved the Time Complexity and parallelized the algorithm using Multi-Threading to obtain a 4X speedup

TECHNICAL SKILLS

- Languages and Development Tools: C/C++, JavaScript, SQL, JAVA*, Python*, Git, Gradle*, VSCode, Intellij
- Technologies Used: NodeJS, ReactJS, MongoDB, MySQL, Firebase, jQuery, BootStrap, Spring*, MyBatis*, PostgreSQL*, TensorFlow, Keras, Pandas, Numpy, Scikit Learn*
- Area of Interest: Web Development, Data Structures and Algorithms, Deep Learning*, Natural Language
 Processing*

 * Elementary proficiency

Positions of Responsibility

• Lead Member, Gymkhana Web Development Team, IIT Indore

Oct. 2020 - Oct. 2021

- Played major role in the development of the offical International Affairs website of IIT Indore using ReactJS
- Optimized the culturals and sports website that reduced the load time by about 50%

KEY COURSES TAKEN

- Mathematics: Linear Algebra, Basic Calculus, Discrete Maths
- Computer Science Courses: Data Structures and Algorithms, Database Management System, Software Engineering, Computer Networks, Operating Systems, Parallel Computing, Computational Intelligence