Agnish Upadhyay

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B.Tech - Chemical Engineering
Minor in Mathematics
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.78 (Current)	2020-Present
Senior Secondary	CBSE Board	96.8%	2020
Secondary	CBSE Board	91.6%	2018

EXPERIENCE

- **Times Internet Limited** *May 2023 - July 2023*
  Software Development Intern
  - Implemented **Fuzzy Matching** using NLP after data cleaning for Economic Times data to match 4.5M user entries with acceptable choices. Utilized **vectorization**, **cosine similarity**, and **Levenshtein's distance** for accurate matching.
  - Worked on a live web project on the **Laravel framework** from scratch and added various quality of life features to the app along the way. Deployed the project using **Amazon Web Services**.

PROJECTS

- **News Website** *May 2023 - June 2023*
  Industry Project Github
  - Developed a web application built with **Laravel** having an **admin panel** for publishing and editing articles which are displayed on front-end, **dynamic content loading**, and **social media integration**.
  - Implemented **authentication** and user **categorisation** on the basis of priority. Database technology used is **mySQL**. Used **AJAX** for seamless scroll experience. **Additional features**: Pagination, Newsletter subscription.
- **Video Recommendation Engine** *Feb 2023 - May 2023*
  Course Project under Prof. Prakash Kotecha Github
  - Developed an **intelligent algorithm** to implement a **queue-based** media recommendation system which adjusts to the user's screentime and bandwidth constraints. **Decision Factors**: Relevance, Likability, Popularity.
  - Used **Genetic Algorithm** to solve the problem by metaheuristics. Mathematically modelled the real-world problem into an **MINLP** and then solved it using **GAMS** and **Python**.
- **Chess** *Nov. 2022 - Jan. 2022*
  Solo Github
  - Implemented the game of Chess using **C++** as the sole programming language incorporating **bit manipulation** techniques and application of the **minimax algorithm**.

TECHNICAL SKILLS

- **Programming Languages**: C/C++, C#*, Python, PHP, MATLAB
- **Web Technologies and Database Management**: HTML, CSS, JavaScript, Laravel, AWS, mySQL, MS Excel
- **Miscellaneous**: NumPy*, Pandas*, Matplotlib*, Keynote, GAMS *Elementary proficiency*

KEY COURSES TAKEN

- **Computer Science**: Introduction to Computing, Data Structures and Algorithms, Computer Aided Numerical Methods, Computing Laboratory, Computer Aided Applied Optimisation
- **Mathematics**: Real Analysis, Complex Analysis, Multi-variable Calculus, MATLAB Fundamentals, Mathematical Statistics, Scientific Computing

POSITIONS OF RESPONSIBILITY

- **Technical Co-ordinator**, Disang Hostel, IIT Guwahati *Apr. 2022 - Mar. 2023*

ACHIEVEMENTS

- **Codeforces**: Max Rating - 1501 (Specialist) | India Top 2500 | Best global rank - 480
- **Leetcode**: Max Rating - 1767 | 1000+ Problems Solved (Top 8k in 420k users)
- **Codechef**: Max Rating - 1876 (4 stars) | Best Global Rank - 15 (Division 3)
- **Google Kickstart**: Obtained Global Rank 2105 in Kickstart Round D.
- **Joint Entrance Examination 2020**: Secured All India Rank 3620 among 1.4 million candidates.
- **KVPY 2018-19**: Obtained the National Research fellowship by securing All India Rank 417.
- **NTSE 2018**: Obtained the National Scholarship by obtaining a position in top 0.1%.

EXTRACURRICULARS

- **Alcheringa, IIT Guwahati**: Worked as Corporate Relations and Marketing executive in the cultural fest.
- **StreetPlay**: Performed a streetplay on 'Male Stereotyping' on Guwahati and Kamakhya Stations.
- **MnAnalyse**: Secured 1st position in the case study competition conducted by Finance & Economics Club, IITG.
- **Vijyoshi Camp**: Attended the annual science and research camp held at IISc Bangalore.