

# ABHINAV MISHRA

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## Education

### Master of Science, Data Analytics Engineering

GPA: 4.0 / 4.0

Northeastern University, Boston, MA

Expected September 2023

- Relevant Coursework: Data Mining, Machine Learning, Probability and Statistics, Database Management

### Bachelor of Technology, Computer Science Engineering

Amity University, Noida, India

May 2015

- Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Design Patterns

## Experience

### Web Developer Manager

January 2019 - June 2021

TIMES INTERNET, Noida, India

- Architected and engineered a Progressive Web App solution for mobile and web for Times Internet serving users across 8 different languages, having a peak of 500,000 concurrent users, using React.js and Node.js.
- Setup coding practices across existing projects, leading, and mentoring trainee engineers while conducting regular code reviews, reducing deployment time issues by a margin of 5%.
- Achieved an increase ad revenue by 20% and decrease in page load time by 25%. PWA solution for mobile achieved 100/100 on all performance aspects and won a presentation spot at Google I/O.
- Spearheaded error analytics for the web application using data visualization and data mining techniques using python, pandas and plotly, reducing frequently occurring user-facing real time errors by a margin of 20%.

### Frontend Engineer

April 2018 - September 2018

BUDDY4STUDY, Noida, India

- Pivoted existing web application technological stack from jQuery/php to React.js, D3.js and Node.js improving performance on critical areas such as SEO and page load time by up to 15%.
- Improved page ranking of product web application, for keywords of "Education and Scholarship" related searches to be in top 10 results and built customer facing dashboards for student - scholarship analysis in D3.js.
- Initiated and launched an in-house project, automating and streamlining process of introducing new scholarships into application database, saving manual man hours by up to 50 hours / week using python and shell scripting.

### Software Engineer

September 2015 - June 2017

TECTURA INFOTECH, Noida, India

- Generated reports in MS Dynamics AX and MSBI for clients, analyzing and consolidating sales and invoice related data from MSSQL database through visualization, reducing in
- Built data warehouse solution and data aggregation service for CARLSBERG (APAC region) helping consolidate key data metrics such as supply-chain and revenue-cost trimming wastage by a factor of 10%.

## Technical Skills

- Languages and Frameworks: Python, R, JavaScript (ES6), Typescript, Java, D3.js, ReactJS, Node.js, HTML, CSS, SQL, Pandas, Matplotlib, scikitlearn, NumPy, plotly, keras.
- Databases and Software Tools: MySQL, Neo4J, MongoDB, GIT, SVN and JIRA.

## Projects

- Data science and Visualization: K means and Hierarchical clustering utilizing Jaccard coefficient and Dunn Index to classify countries based on their global indicators, Conway's simulation of Life, Visualization of temperatures across Earth and Tic Tac toe using Minmax algorithm. (<https://codepen.io/abhinavthinktank>)
- Time series analysis: Using R and Python, performed time series analysis on user's sensor data considering their heartrate while walking, standing and other activities, to predict and differentiate different types of activities.
- Network Analysis and NLP: Made network graphs for word frequency in a novel, bigram analysis (identifying main characters) visualizations using loglog scale based on word frequency (zipf's law).