

Athashree Vartak

athashreeav5556@gmail.com | +91 7506179227 | Mumbai, India

[LinkedIn](#) | [GitHub](#)

EDUCATION

Thakur College of Engineering and Technology, Mumbai

2016 - 2020

Bachelor of Engineering in Computer Engineering | CGPA: 9.27/10

TECHNICAL SKILLS

- Programming Languages: C, C++, Python
- Web Technologies: HTML, CSS, SCSS, JavaScript, JQuery, AJAX, PHP, Bootstrap, Next.js, React
- Database: MySQL, MongoDB, PostgreSQL
- Frameworks, Tools & Cloud: Django, GitHub, GitLab, Amazon EC2, Strapi
- Operating System: Linux, Windows

ACADEMIC PROJECTS

Design and Development of System to Improve Classification Model using Ensemble Learning

Jan 2020 - Mar 2020

- Implemented SVM, KNN, Logistic Regression, Decision Tree, Naïve Bayes and Ensemble methods like Bagging, Boosting, Voting and Stacking to understand the difference in performance of these approaches to that of the standard basic algorithms on MNIST dataset.
- Created stacking models using basic classification algorithms, Random Forest, LightGBM, XGBoost and their variants obtained using hyper-parameter tuning and feature selection. Obtained the accuracy of 97.5% using 2-level stacking model.

Approach to efficiently choose Machine Learning Algorithms and Performance Measures

July 2019 - Nov 2019

- Devised method to choose algorithm and performance measure on the basis of based on various factors like training time, prediction time, data distribution, number of features, expected outcome, type of data, etc. that are important for a particular problem by implementing them on real datasets and synthetic datasets.
- Implemented SVM, KNN, Decision Tree, Naïve Bayes and Logistic Regression and verified the results by comparing results of with algorithms on the same dataset.

Cricket Game Outcome Prediction

February -March 2019

- Analyzed the acquired data to determine the predictions that can be made and then cleaned the data for further process.
- Implemented two models utilizing numpy, sklearn, plotly, pandas; first one to comprehend relevance of a toss result to determine outcome of cricket match and second one to decide role of a new player on team based on past data.
- Achieved an accuracy of 75% by using Naïve Bayes algorithm for first prediction. Increased accuracy of second model by 15%; replaced standard classification by classification after clustering approach.

PROFESSIONAL EXPERIENCE

Software Developer Intern, Tunica Labs, Mumbai

August – November 2020

- Designed the database for FinWise project using Strapi and used PostgreSQL for deployment of the same. Created APIs to fetch data using GraphQL and Apollo. Optimized the fetch operation by indexing and query tuning.
- Developed front-end modules using Next.js and SCSS.
- Improved the web-scraper to efficiently fetch only required product data from various websites to update the database.

Web Developer Intern, Apex Consultants, Mumbai

January – June 2019

- Revamped existing website by redesigning, introducing new modules, fixing bugs, and adding visual elements to expedite page loading, facilitate better navigation and improve user experience. Observed an increase in traffic to website by 10%.
- Designed, developed, and deployed a new website and also used JQuery and Ajax to manipulate elements entered by user, process form validation, and display animations.

SQL Developer Intern, KAPRAS Technologies, Mumbai

December 2018 – February 2019

- Assisted in designing a data warehouse for a data analysis project.
- Worked on SQL Database system and wrote queries for various operations. Optimized performance by tuning queries.

LEADERSHIP EXPERIENCE

Editor, COMP Department Technical Magazine (Nimbus), TCET

July 2017 – September 2019

- Devised themes for two issues of bi-yearly technical magazine. Interacted with various industry personnel to identify and record their views.
- Designed content for magazine according to theme and proofread articles by other authors.

Secretary, Computer Society India (CSI) – TCET Chapter

August 2018 – July 2019

- Planned and organized various technical competitions, seminars, and workshops, in a team of six, to help students develop strong technical prowess and also administered a 10-day industrial visit for 110 students.
- Composed detailed reports and conducted SWOT analysis of every activity arranged throughout year.
- Spearheaded hospitality department, consisting of 20 people, during 3-day annual technical festival Zephyr'18.