

# Yash Bhandare

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## EDUCATION

### Purdue University

MS, Computer Science (4.00/4.00 GPA)

Aug 2022 - May 2024

(Indiana, USA)

### Savitribai Phule Pune University

BE, Computer Science (8.41/10.00GPA)

Aug 2016 - Jan 2020

(Pune, India)

## EXPERIENCE

### Purdue University - Graduate Teaching Assistant & Instructor

Aug 2023 - May 2024 (Indiana, USA)

- Tutored 80+ students in lab courses for CS16000 and CS16100 - Intro to Comp. Sci. 1 and 2).
- Taught students with labs in Java to get acquainted with OOP, IDEs, data structures and general coding ethics.
- Tutored a class of 40 as Instructor for CS 30600 – Computers in Society talking about ubiquity of computing.

### Avalara - Software Developer

May 2020 - July 2022 (Pune, India)

- Developed 50+ REST APIs in Express.js with TypeScript and Node.js impacting all major functionalities.
- Created and maintained 10+ SQL databases in docker as well as AWS RDS and handled related business logic.
- Spearheaded role of scrum master for 1 year and was team security champion for 2 quarters.
- Deployed highly compliant terraformed infrastructure on AWS considering scalable design strategies.
- Automated frequent customer asks with python scripts and JIRA to improve ticket queue sizes by 90%.

### Metalbrain Technologies Pvt. Ltd - Data Science Intern

Aug 2019 - May 2020 (Pune, India)

- Developed a novel approach to provide an unbiased rating to stock market analysts.
- Implemented Naive Bayes Classifier, Data Scraping, Data Mining, K-Means and custom business logic with a MySQL database for backend served on a Node.js API.
- Presented an open access research paper based on original research in IEEE INCET 2020 conference.
- Accomplished an end-to-end system with 3 years of stock market data and web-scraped more than 22000 recommendations given by Stock Market Analysts to give a rating to more than 500 individual Stock Analysts.

### Fairlinx (FsmPro) - Software Development Intern

July 2018 - Sep 2018 (Pune, India)

- Collaborated on a coding automation tool with Qt framework in C++, FSMPro currently offers a solution to convert state machines into code combining design, development, and documentation process into one.
- Executed implementation and testing of a UI with 20+ functionalities to draw and edit state machines.

## ACADEMIC PROJECTS & RESEARCH PUBLICATIONS

- IEEE INCET 2020 – “SMART: Stock Market Analyst Rating Technique Using Naive Bayes Classifier” <https://ieeexplore.ieee.org/document/9154002>.
- Hyperparameter tuning using simulated annealing and genetic algorithms** – Coded 2 novel solutions for NP-hard search problem of hyperparameter optimization using metaheuristic algorithms. Publication pending.
- Translate, transcribe and subtitle using WhisperAI** – Real time translation and transcription project based on OpenAI's WhisperAI NLP model. Awarded best course project for Applications of Deep Learning course.
- College news portal android application** – Multi app android project with a Firebase backend hosted on Google Playstore and deployed in department aimed at eliminating college news boards.

## TECHNICAL SKILLS

- Programming Languages:** TypeScript, JavaScript, C#, Python, Terraform, C, C++, CSS/HTML, Java, SQL.
- Tools:** AWS, Docker, Git, Grafana, Prometheus, Gitlab, Jira, Confluence, Selenium, Whitesource, Express.js.
- Other Skills:** Team Leadership, Scrum Master, Communication, Agile Methodologies, Digital Marketing, Software Testing, Gitlab CI/CD pipelines, REST APIs, Firebase, noSQL, MySQL, Tableau, Web-Development.

## CERTIFICATIONS

AWS Certified Cloud Practitioner, Certified Scrum Lead, Python, Node.js, Express.js, Data Governance, Tableau