**Yash Bhandare**

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**EDUCATION**

**Purdue University Aug 2022 - May 2024**

*MS, Computer Science (4.00/4.00 GPA)*  **(Indiana, USA)**

**Savitribai Phule Pune University Aug 2016 - Jan 2020**

*BE, Computer Science (8.41/10.00GPA)* **(Pune, India)**

**EXPERIENCE**

[**Purdue University**](https://www.purdue.edu/)- **Graduate Teaching Assistant & Instructor Aug 2023 - May 2024 (Indiana, USA)**

* Tutored 80+ students in labs for “Intro to Comp. Sci. 1 and 2” courses overseeing programs in Java, JavaFX.
* Taught students with labs in Java to get acquainted with OOP, IDEs, data structures and general coding ethics.
* Tutored class of 40 for “Computers in Society” course talking about social, legal and ethical aspects of computing.

[**Avalara**](http://www.avalara.com)- **Software Development Engineer May 2020 - July 2022 (Pune, India)**

* Developed 50+ REST APIs in Express.Js with TypeScript and Node.js impacting all major functionalities.
* Automated ticket handling with Python, Linux shell scripts and JIRA to improve ticket queue sizes by 90%.
* Created and maintained 10+ SQL databases in docker as well as AWS RDS and handled Gitlab CI/CD YAMLs.
* Spearheaded role of scrum master for 1 year and was team security champion for 2 quarters.
* Deployed terraform infrastructure on AWS-Lambda, Step Functions, API Gateways with scalable design.

[**Metalbrain Technologies Pvt. Ltd**](https://www.linkedin.com/company/metalbrain/) - **Data Scientist Aug 2019 - May 2020 (Pune, India)**

* Developed a novel approach providing unbiased rating to stock market analysts based on historical performance.
* Implemented Naive Bayes Classifier, Data Scraping using Selenium, Data Mining by clustering, K-Means and custom data conditioning logic in Python3 with a MySQL database for backend served on a Node.js REST 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)**](https://www.fsmpro.io/) *-***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 manipulate 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 –** Multiapp 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, Python, Java, Terraform, C#, C, C++, CSS/HTML, 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