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 - **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 - **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 - **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) - **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** – 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, 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