



Yash Bhandare

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TECHNICAL SKILLS

- **Languages:** Python, SQL, R, Java, JavaScript, TypeScript, C#, C, C++, Go, HTML/CSS, MATLAB, YAML.
- **Data Science/ML:** TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Deep Learning (DNN, CNN), Reinforcement Learning, AI/ML, Model Evaluation, Feature Engineering, Hyperparameter Tuning, GAN, GenAI, Metaheuristic Algorithms, Jupyter Notebooks, Anaconda.
- **Tools:** AWS, Docker, Git, Grafana, Prometheus, Gitlab, Jira, Confluence, Selenium, Whitesource, Express.js.
- **Other Skills:** REST APIs, Firebase, NoSQL, MySQL, Tableau, Data Mining, Latex, Shell Scripting, Web-Development, Scrum Master, Agile, Digital Marketing, Testing, Gitlab CI/CD pipelines, Terraform, Sumologic.

EXPERIENCE

Graduate Teaching Assistant & Instructor - Purdue University Aug 2023 - May 2024

- GTA for “Intro to Comp. Sci. 1 and 2” courses and Lecturer for “Computers in Society” course.
- Tutored 80+ students in OOP, Data Structures, Algorithms, Java, JavaFX, UI/UX, Good Coding Practices.

Senior Software Development Engineer - Avalara May 2020 - July 2022

- JIRA ticket handling with Python3 and Linux automation shell scripts to improve ticket queue sizes by 90%.
- Developed 50+ REST APIs in Express.js with TypeScript and Node.js impacting all major functionalities.
- Deployed terraform infrastructure on AWS like Lambdas, Step Functions, API Gateways with scalable design.
- 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 conclusively resulting in a 35% increase in team velocity per sprint and creating industry-compliant AWS IAM architecture.

Data Scientist - Metalbrain Technologies Pvt. Ltd Aug 2019 - May 2020

- **SMART: Stock Market Analyst Rating Technique Using Naive Bayes Classifier** – IEEE INCET 2020
- 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.
- 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.

ACADEMIC PROJECTS & RESEARCH PUBLICATIONS

- **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.
- **Weather Prediction App** – Used LSTM model to predict temperature using historic data. Conducted extensive data cleaning, model evaluations and selection and created an application working off the results of the model.
- **AI-Powered Image Transformation using GANs** – An academic research project using GANs for image-to-image translation tasks specifically sketch-to-image and style transfer using Pandas, PyTorch and Deep CNNs.
- **Salary Predictor** – Trained a random forest model to predict salaries based on user demographics using salary data from the past 3 years. Deployed the model's pickle via a Flask API backend and a simple React.js frontend.

CERTIFICATIONS

AWS Certified Cloud Practitioner, Certified Scrum Lead, Python3, Node.js, Data Governance, Tableau, GAN.

EDUCATION

Purdue University Aug 2022 - May 2024

MS, Computer Science (4.00/4.00 GPA)

Savitribai Phule Pune University Aug 2016 - Jan 2020

BE, Computer Science (8.41/10.00GPA)
