



Yash Bhandare

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ACADEMIC PROJECTS & RESEARCH PUBLICATIONS

- **Portfolio Webpage (UA Aspect)** – Created **portfolio webpage** with **SEO and UA analysis** using **Google Analytics** dashboard to monitor **DAU, LTV, Demographics, Downloads** and other metrics aimed at improving and directing my job search.
- **LightweightMMM Mini Project** – Implemented a spike project to **explore a marketing mix modeling solution** using Google's LightweightMMM library with Bayesian statistical modelling for optimizing campaign performance.
- **Hyperparameter tuning using simulated annealing and genetic algorithms** – Coded 2 novel solutions for NP-hard search problem of hyperparameter optimization using metaheuristic algorithms. Tested on XGBoost and RForest models. **Publication pending.**
- **Translate, transcribe and subtitle - WhisperAI** – Real time translation/transcription project based on OpenAI's WhisperAI NLP.
- **Weather Prediction App** – Used **LSTM** model to predict temperature using historic data with **PCA**, model evaluations and selection.
- **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**.
- **SMART: Stock Market Analyst Rating Technique Using Naive Bayes Classifier** – published in IEEE INCET 2020.

TECHNICAL SKILLS

- **Data Science:** Deep Learning (DNN, CNN), Reinforcement Learning, Statistical Modelling, Model Evaluation, Feature Engineering, Hyperparameter Tuning, GAN, GenAI, Metaheuristic Algorithms, Data Visualization, NLP, Computer Vision.
- **Languages:** Python, SQL, R, C++, Bash, TypeScript, Java.
- **ML Libraries:** TensorFlow, PyTorch, Keras, Scikit-learn, Pandas, NumPy, Seaborn, SciPy, Matplotlib, XGBoost, LGBM, Plotly.
- **Databases:** MySQL, PostgreSQL, Firebase, Redis, Neo4j, MongoDB, SQLite, Spark.
- **DevOps/MLOps/Cloud Services:** AWS, Azure, Docker, Kubernetes, Terraform, GitLab CI/CD, Jenkins.
- **Other Tools:** Git, Tableau, Jupyter Notebooks, Anaconda, Grafana, Confluence, JIRA, Prometheus, Sumologic, Whitesource.

EXPERIENCE

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

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

Software Engineer - Avalara May 2020 - July 2022

- Created user data **Monitoring** dashboard using **Grafana, Prometheus** with Data Ingestion pipeline for SQL logs with Airflow.
- Automated **JIRA** tickets with **Python3** and **Linux shell scripts** to improve ticket queue sizes by 75%.
- Deployed **Terraform IaC** on AWS like EC2, Lambda, Step Function, API Gateway, SQS, RDS, S3 and handled **Gitlab CI/CD** YAML.
- **Scrum master** orchestrating agile SDLC resulting +35% in team velocity and **AppSec** POC for **NPM, IAM** tickets (**CMKs, ACLs**).
- Developed 50+ REST APIs in **Express.js** with **TypeScript, Node.js** in **MVC architecture** documented in **OpenAPI**.

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

- Developed a novel approach providing unbiased rating to 500+ stock analysts based on on **3 years of data** achieving **92% accuracy**.
- Implemented **Naive Bayes Classifier**, ETL pipeline with a **MySQL** backend deployed on **Azure Cloud** as a web app.
- Tools: **Python3, Sklearn, Selenium, Data Mining, Seaborn, Matplotlib, K-Means, Pandas, NumPy, Gaussian NBC, MySQL, Node.js**.

Fairlinx (FsmPro) - Software Development Intern July 2018 - Sep 2018

- Collaborated on state machine to code automation tool with **Qt framework** in **C++**, designing and **testing a UI** with 20+ functionalities

CERTIFICATIONS

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|-------------------|-------------------|--------------------|----------------|
| • AWS CCP | • Advance Python3 | • DBMS (SQL) | • Node.js |
| • Data Governance | • Tableau | • RESTful services | • Scrum Master |

EDUCATION

Purdue University | *MS, Computer Science (4.00/4.00 GPA)* Aug 2022 - May 2024

Savitribai Phule Pune University | *BE, Computer Science (8.41/10.00GPA)* Aug 2016 - Jan 2020