

Yash Bhandare

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SUMMARY

Data-driven techie with 4+ years of experience in data analysis, backend development, AI/ML, DevOps, and UX. Skilled in Python, R, SQL, RESTful Services, AWS, TypeScript. Currently optimizing data pipelines and AI research workflows for Google's XR team.

WORK EXPERIENCE

Data Specialist | Google (TVC via Cognizant)

Sep 2024 - Current

- Create KPIs and visualizations for business reports using metrics derived from various tools and data mined from SQL RDBMS.
- Setup and troubleshooting of 3 types of experimental unreleased hardware using adb (Android debug bridge).
- Collaborated with technical and non-technical stakeholders to start 3 new research studies for Agentic AI, multimodal LLMs.
- Scaled up user participation in XR research studies by 30% with Google Apps Scripts automations and actionable insights.
- Set up and trained 2 teams for Scrum from scratch and currently Scrum master, increasing team throughput by 50%.

Graduate Teaching Assistant and 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 bash, DBMS, OOP, Data Structures, Algorithms, Java, JavaFX, UI/UX, Design Patterns.

Software Development Engineer | Avalara

May 2020 - July 2022

- Made enterprise data monitoring dashboard using Grafana, Prometheus with ingestion pipeline for SQL logs and slack alerting.
- Developed 50+ customer facing REST APIs in Express.js with TypeScript and maintained active React.js UI pages and SQL Db.
- Deployed Terraform IaC on AWS like EC2, Lambda, Step Function, API Gateway, SQS, RDS, S3 and handled Gitlab CI/CD YAML.
- Automated JIRA tickets with Python3 and shell scripts to reduce ticket queue by 75% resulting in customer satisfaction.
- Scrum master orchestrating a +35% in team velocity and AppSec POC for NPM, IAM tickets (CMKs, ACLs).

Machine Learning Engineer | Metalbrain Technologies Pvt.Ltd.

May 2019 - May 2020

- Managed end-to-end project by translating client requirements into scalable enterprise-ready ML POC solution on Azure.
- Developed an approach providing unbiased rating to 500+ stock analysts based on 3 years of data achieving 92% accuracy.
- Implemented with EDA, Naive Bayes Classifier, K-Means, ETL pipeline with a MySQL backend, Node.js API and a React.js UI.

Software Development Intern | Fairlinx (FSMPro)

Jul 2018 - Sep 2018

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

EDUCATION

Purdue University | MS, Computer Science (4.00/4.00 GPA)

Aug 2022 - May 2024

Savitribai Phule Pune University | BE, Computer Science (8.41/10.00 GPA)

Aug 2016 - Jan 2020

CERTIFICATIONS

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|-------------------|--------------------|----------------|
| • AWS CCP | • Advanced Python3 | • Tableau |
| • Data Governance | • DBMS (SQL) | • Scrum Master |

TECHNICAL SKILLS

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

ACADEMIC PROJECTS & RESEARCH PUBLICATIONS

- **SMART: Stock Market Analyst Rating Technique Using Naive Bayes Classifier** – published in IEEE INCET 2020.
- **Portfolio Webpage** – 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.
- **Hyperparameter tuning using simulated annealing and genetic algorithms** – Solutions for hyperparameter optimization using metaheuristic algorithms. Tested on XGBoost and RForest models. Publication pending.
- **Translate, transcribe and subtitle** – Real time translation/transcription project based on OpenAI's WhisperAI NLP.