

SAUMITRA PANCHAL

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SUMMARY

- **7+ years experience** across software development, analytics, technical consulting, and project management.
- **Proven people leader**, managing high-performing teams of **5–10 developers**, improving operational efficiency and accelerating migration timelines.
- Strong expertise in **full-stack development** (Django, Flask, Streamlit, TypeScript, Flutter) and building **scalable automation solutions** that reduce manual effort and boost productivity.
- Balancing AI-driven efficiency with necessary human intuition to ensure that while LLMs accelerate development, architectural integrity remains robust.

CORE TECHNICAL SKILLS

- Education: MS in Operations Management, MS in Artificial Intelligence (Deep Learning)
- Programming Languages: Python, R, JavaScript, Typescript, Dart (Flutter), VBA
- Databases: Mongo DB, SQL, Postgres SQL
- Python-Specific Skills: Pandas, REST APIs, Django, Flask, Streamlit
- AI & ML Skills: Scikit-learn, PyTorch, TensorFlow, Computer Vision, Natural Language Processing
- DevOps & Backend Tools: OpenShift, Harness, Lightspeed, Git, Github, Bitbucket
- Operating Systems: Windows, Mac

PROFESSIONAL EXPERIENCE

Software Developer | Senior Consultant

First Derivatives, an EPAM company - Toronto, ON, Canada

Mar 2025 - Present

- Developing and maintaining **backend solutions** for Citi's wholesale lending platforms, delivering scalable and secure solutions.
- Built **RESTful APIs and microservices** using FastAPI and Python, improving system performance.
- Optimized **MongoDB aggregation pipelines**, significantly reducing query latency.
- Designed and deployed billing and operational endpoints critical to Citi's workflow automation.
- Built and maintained **CI/CD pipelines** using Harness, Red OpenShift, Bitbucket Builds, and Lightspeed.
- Developed **real-time streaming pipelines** with Kafka and Airflow for high-volume data ingestion.
- Volunteered as a Backend Engineer on EPAM's internal **AI platform**, contributing FastAPI services, observability, and tracing using **Langfuse**.
- Built **TypeScript** based frontend features that directly integrated with some of the backend solutions I worked with.

Senior Technical Consultant - Integrations

Darwinbox, Mumbai, India

Sep 2021 - Oct 2024

- Led a team of 5–10 Python engineers, reducing data migration timelines by **15%**.
- Designed and optimized **APIs and backend automation** scripts for large-scale HR data migrations.
- Delivered **automation tools for 30+ enterprise clients**, converting Python scripts into desktop executables using Tkinter and PyInstaller.
- Built a **Django + Streamlit web application** integrated with MongoDB and REST APIs, cutting migration time by **20%** and improving delivery speed.

Data Analyst

Procter & Gamble, Mumbai, India

Oct 2020 - Oct 2021

- Developed **Tableau and Power BI dashboards** for demand forecasting and inventory planning across product categories.
- Performed data processing tasks such as sorting, cleaning, modeling, and analyzing structured and unstructured data from **Oracle Business Intelligence**, which improved data accuracy and informed strategic decisions.
- Automated end-to-end reporting workflows using **Python** and **KNIME**, saving **1+ hour/day**.
- Designed a predictive **MIS reporting system** for women's hygiene products, adopted organization-wide.

Project Administrator

Bare International, Mumbai, India

Jul 2019 - Jul 2020

- Managed customer experience projects across **15+ international markets**.
- Oversaw **1,200+ audit locations**, ensuring data accuracy and on-time delivery.
- Designed **SQL and Python ETL pipelines**, transforming raw audit data into actionable insights.

Research Analyst

Edge by Ascential , Mumbai, India

Nov 2017 - Jun 2019

- Maintained a **global retail intelligence database** covering 188 markets and 155 cities.
- Analyzed retailer financials and macroeconomic data to produce performance forecasts.
- Automated forecasting workflows using **VBA macros**, reducing turnaround time by **40%**.
- Built **SQL-driven dashboards** in Looker for real-time stakeholder reporting.
- Collaborated with global teams across US, UK, and Germany.

EDUCATION

Master of Science in Artificial Intelligence - Deep Learning

2022 - 2024

NMIMS University, Mumbai, India

Masters in Management Studies - Operations Management

2014 - 2016

Vidyalankar Institute of Technology, University of Mumbai

Bachelor of Science

2010 - 2013

Sathaye College, University of Mumbai

CERTIFICATIONS

- Advanced NLP with Python for Machine Learning 2025
- Career Essentials in GitHub Professional Certificate 2025
- Deep Learning with PyTorch: Image Segmentation 2024
- MongoDB CRUD Operations in Python 2023
- Connecting to MongoDB in Python 2023
- Python for Everybody, Specialization 2020
- DAT207x: Analyzing and Visualizing Data with Power BI 2020
- Excel VBA and Excel Macros 2020

PROJECTS

- [Position Estimation and Distance Measurement in 2D Space](#) — AI Master's Dissertation
- [Machine Learning Web App](#) — Reduced food waste at Pfizer Mumbai cafeteria
- [Football Analysis using Computer Vision](#) — Computer vision and deep learning-based player and game analytics