

# SARVESH PATIL

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## Education

### University of Mumbai

Bachelor of Engineering in Information Technology (CGPA: **9.89/10**)

July 2020 – May 2024

Mumbai, India

## Technical Skills

**Languages:** Python, Javascript, Typescript, Java, C++, HTML/CSS

**Frameworks:** LangChain, React.js, Next.js, Express.js, Node.js, Flask, FastAPI, Tailwind CSS, MUI

**Databases & Tools:** MongoDB, Firebase, LLMs, RAG, AWS, Docker, Git & Github, JupyterNB

## Experience

### Nomura

Software Engineer

July 2024 – Present

Mumbai, India

#### Pitchbook Generator

- **Led** a 6-member team to **automate 80%** of investment pitchbook creation by engineering an AI-driven system using **LangChain agents**, reducing manual effort and enabling real-time updates via natural language.
- **Accelerated banker workflows by 3x** by building AI modules for executive summaries, benchmarking, stock comparisons, and dynamic world maps, fully integrated into Nomura's internal ecosystem.
- Reduced turnaround time and improved consistency across **100+ pitchbooks annually** by building an Assembly Engine that merged AI-generated content into Nomura's standard PowerPoint templates.
- **Stack:** Langchain Agents, LLMs, FastAPI, Next.js, Python, Matplotlib, Geopy, Pillow, Tailwind CSS

#### Backstage - Internal Developer Portal

- Reduced release analysis time from **hours to seconds** and improved incident response by implementing **AI-powered ETL systems** that automated data ingestion, analysis, and summarization, delivering real-time insights, root-cause and trend analyses across **500+** applications to enable faster detection and decision-making for tech teams & management.
- Unified CI/CD visibility across **500+ repositories** by integrating GitLab CI and Jenkins into a centralized Backstage plugin, **boosting GitLab CI adoption by 25%** and streamlining migration from Jenkins to GitLab CI.
- Improved governance hygiene by developing a Backstage plugin that visualizes real-time metrics (incidents, changes, infringements, configurations), reducing dependence on manual reporting for **120+ application teams**.
- **Stack:** LLMs, FastAPI, Python, Backstage, React.js, Node.js, GraphQL, MongoDB, Typescript, MUI

### Brihanmumbai Municipal Corporation

Software Developer Intern

June 2023 – April 2024

Mumbai, India

- **Accomplished digitalization** of the toilet community data collection process by developing a full-stack MERN web portal and admin dashboard which led to streamlined data management and elimination of paper-based workflows.
- Reduced server **storage costs by 50%** by implementing an image compression pipeline, lowering operational expenses.
- Ensured secure and efficient data handling by integrating OTP-based auth, PDF/Excel exports, and EC2 deployment.
- **Stack:** Next.js, Node.js, Express.js, MongoDB, Amazon EC2, Sharp, 2Factor, JSPDF, XLSX, Tailwind CSS

## Projects

### BlendForce | LLMs, Next.js, Node.js, MongoDB, Flask, SK-Learn, LlamaIndex, RAG

Github | Demo

- Engineered a platform for hiring managers to analyze workforce diversity, hiring trends, and vendor/campus performance through interactive charts and tables, enabling **faster recruitment analysis** and **data-driven decision-making**.
- Developed Candidate Recommendation and ATS systems by implementing **cosine similarity-based algorithms**, improving candidate-job match accuracy and **reducing manual screening time by 75%**.
- Built secure auth, real-time analytics, and data import/export features resulting in seamless data management.

### Demeter | React.js, Next.js, Flask, Jupyter NB, Pandas, Numpy, SK-Learn, OpenAI

Github | Demo

- Engineered a platform that provides farmers with disease detection and treatment guidance, crop and fertilizer recommendations, and 7-day weather forecasts, enabling **data-driven farming** and **improving decision efficiency**.
- Built a **CNN-based disease detection model** achieving **98.7%** accuracy and leveraged **DALL-E** for image generation.
- Developed a scalable full-stack web app with Next.js, Flask, and NextAuth.js for secure authentication.

## Achievements

- Secured **1<sup>st</sup>** prize at Hack-AI-Thon, **2<sup>nd</sup>** prize at Hackanova 2.0, **2<sup>nd</sup>** prize at Syrus, and **3<sup>rd</sup>** prize at Code-A-Thon, **Scroll pool prize** at ETHIndia'23, **Best use of GenAI APIs prize** at HackThisFall 4.0 Hackathon.
- Secured a job offer after reaching the final round of **Nomura KakushIN 7.0 Hackathon** among 700+ participants.
- Secured **scholarship** of INR 50,000 from Narotam Sekhsaria Foundation for brilliant academics in **undergraduate**.