

Tanaya Pawar

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EDUCATION

New York University

Masters in Computer Science, GPA: 3.88/4

Coursework: Machine Learning, Software Engineering, Big Data, Deep Learning, Algorithms

New York, USA

Aug 2024 - May 2026

Savitribai Phule Pune University

Bachelor Of Engineering in Computer Engineering *with distinction*, GPA: 8.64/10

Coursework: Data Structures, Object Oriented Programming, Operating Systems, Cloud Computing

Pune, India

Aug 2020 - June 2024

EXPERIENCE

Referrio, New York, USA | *Full Stack Developer Intern*

Feb 2025 - Present

- Developed and maintaining the front and back end of the web app from scratch using **React.js** in **TypeScript** with a responsive design, ensuring a seamless user experience and backend functionality using **PostgreSQL**.
- Analyzed customer requirements to deliver functional and efficient solutions, enhancing user engagement.
- Implemented React Axios HTTP requests to fetch data from RESTful web servers, ensuring 100% data consistency through structured API integration.

Wilo Mather And Platt, Pune, India | *Data Analyst Intern*

Oct 2022 - Dec 2022

- Tracked and analyzed financial risks and expenses against a \$23M budget, developing interactive dashboards using **Power BI**, **Excel**, **SQL backed APIs** to streamline financial analytics for cross-functional teams
- Monthly report generation along with alert to identify high cost areas & potential cost savings opportunities
- Achieved a **38%** reduction in expenses using data analysis over **2022** by analyzing employee behavior patterns

PROJECTS

[CrisiCast](#) | *Apache Kafka, Pyspark, MongoDB, Docker, Qdrant*

- Built a real-time crisis detection pipeline with **FLAN-T5** via **FastAPI**, classifying posts with 92% accuracy
- Deployed a 3-broker Kafka + Spark system processing 180+ records/sec with **99.9%** uptime and fault tolerance
- Designed Plotly Dash dashboard with Qdrant & MongoDB, with **< 3.5s latency**, semantic search on vectors

[Ai-Resume Builder](#) | *Nextjs, Reactjs, PostgreSQL, OpenAPI, Vercel*

- Built and deployed a **full-stack SaaS** platform with advanced features like AI auto-fill, dynamic forms, and drag-and-drop customization, leveraging scalable architecture
- Integrated subscription management with **Stripe** ensuring deployment with responsive design and PDF export
- Reduced resume creation time by **50%** through AI-powered suggestions, and real-time autosave functionality

[Comparative Analysis of LLM's](#) | *Hugging Face, PyTorch, LLM's*

- Explored BERT and GPT by implementing both architectures from scratch and fine-tuning them for NLP tasks
- Trained scaled-down BERT, GPT on WikiText & fine-tuned on SQuAD, CNN/DailyMail using transfer learning
- Achieved losses of **1.67 (BERT)** & **2.97 (GPT)**, highlighting strengths in question answering & summarization
- Implemented a modular **inference pipeline** for **real-time** predictions and model performance

PUBLICATIONS

["Precision Farming Methods Using Machine Learning"](#), [Agro-Advice](#) | *ICESTM*

Feb 3 2024

- Conducted systematic analysis of 24 peer-reviewed studies on ML-driven agricultural recommendation systems
- Identified critical gaps in existing models: insufficient data and limited adaptability to microclimate variations
- Proposed hybrid approach combining Random Forest and XGBoost algorithms, improving prediction accuracy by 17.3% introduced paired cropping optimization demonstrating 22% yield improvement in experimental validation

SKILLS

Programming: Python, JavaScript, C++, R, HTML, CSS, XML, DAX, M, Typescript, AJAX, SQL, MongoDB

Frameworks: Django, Django Rest Framework, React, NextJs, Nodejs, Expressjs, Bootstrap

Libraries: Streamlit, Tensorflow, Keras, Sci-kit Learn, Pandas, NumPy, NLTK, PyTorch, OpenCV, Matplotlib

API's and Tools: REST APIs, Power BI, Tableau, Microsoft Office, Docker, Snowflake, Hadoop, Spark, Linux, AWS (EC2, S3, CloudFront), Docker, GitHub, Vercel, Netlify, CDN, Kubernetes

LEADERSHIP

Co-Chair Lead & Secretary (Computer Engineering Students Association)

Aug 2022 - May 2024

- Led the student club with **86+** members, while increasing the engagement by **40%** compared to 2022 by organizing technical and non-technical events and increasing social media reach by **50%**
- As a Secretary managed communication, records, and logistics for events, ensuring smooth operations throughout