

# NIRMAL BOGHARA

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## Education

- New York University**, MS in Computer Science - **New York, NY**

Expected May 2026

  - **Coursework:** Algorithms, Information Security and Privacy, Database Systems, Machine Learning, Big Data
- University of Mumbai**, BE in Computer Engineering - **Maharashtra, India**

Jun 2024

  - **Coursework:** Operating Systems, Machine Learning, Computer Networks, Applied Cryptography, Data Structures

## Experience

- Technical Ambassador*, **Qualcomm** – New York, NY

Feb 2025 – Present

  - Developed a low-latency AI teaching assistant utilizing Distilled Qwen 1.5B Local LLMs and ONNX Runtime, providing offline access to rural educators while achieving an impressive accuracy rate of 92% through Agentic RAG architecture.
  - Building hybrid agentic architecture of top professors & educators to provide 24/7 access to their knowledge and guidance using their open source learning(Github, Courses, Youtube, Podcasts, Papers) where users can switch between online/offline modes. Developing an android application for the same with the AI directors of Qualcomm. [Github Link](#)
- Software Engineering Intern*, **Bitnine** – San Francisco, CA (Remote)

Apr 2024 – Jun 2024

  - Optimized PostgreSQL databases with Oracle compatibility on AWS, improving complex query performance by 23% for enterprise-scale fintech applications. Optimized & enhanced ODBC C driver for PostgreSQL databases.
  - **Resolved 20+ critical issues** in the Python driver for Apache AGE project as an open-source contributor, enhancing its stability and reliability. Initiated Oracle OCI driver development in C for PostgreSQL databases from scratch, achieving compatibility with Oracle and scalability, and providing a framework for subsequent phases.
- Software Development Engineer Intern*, **Feat Systems** – Maharashtra, India

May 2023 – Aug 2023

  - Improved Java/Spring Boot applications using Agile methodologies, **reducing customer complaints by 15%** and streamlining CI/CD workflows with Jira and GitHub.
  - Developed comprehensive documentation for the software development lifecycle, leveraging GitHub for version control and Jira for task management, ensuring seamless collaboration and accessibility of resources
  - Implemented efficient MySQL-based solutions to streamline access to critical information, achieving a 30% improvement in onboarding speed for new team members and boosting team productivity.
- Full Stack Developer Intern*, **Goldenmace IT Solutions** – Maharashtra, India

May 2022 – Jul 2022

  - Designed a full-stack dashboard using TypeScript, Svelte, and MongoDB, **boosting client satisfaction by 20%** through performance optimization and intuitive UI/UX.
  - Implemented TypeScript and Svelte for code optimization and caching mechanisms, **boosting dashboard performance by 30%**. Integrated PostgreSQL and MongoDB for data storage, ensuring fast and efficient data retrieval.

## Technical Skills

- Languages:** Java, Python, C#, SQL, JavaScript, HTML, R, Golang
- Frameworks & Libraries:** Django, Node.js, React.js, Svelte, TypeScript, Springboot, PHP, Three.js, WebGPU
- Tools:** Git, AWS, Kubernetes, Docker, MS Excel, Jira, Microsoft Azure, Matlab
- Machine Learning:** TensorFlow, PyTorch, Langchain, Scikit-learn, NumPy, Pandas, Matplotlib, ONNX Runtime
- Data:** PostgreSQL, MySQL, MongoDB, Apache Kafka, Hadoop, Tableau, PowerBI, Scala, GraphQL

## Projects

- FitFarm - Smart Agriculture System** (Machine Learning, Python, IoT, JavaScript)

[Github Link](#)

  - Trained ML algorithms (SVM, Random Forest) using Python, TensorFlow, and **Scikit-learn** to predict the most suitable crops according to soil conditions with 93% accuracy. Published a [research paper](#) in the IJRASET.
- Automated Employee Tracking System** (Python, NumPy, TensorFlow, PyTorch, YoloV7) - **AI Engineer at Soulible Digital**
  - Built a computer vision system using YOLOv7 and TensorFlow, automating attendance tracking for 200+ employees and reducing manual effort by 50%. Analyzed the face recognition attendance system using Python, NumPy, and Pandas.
- Zinzraa - Top E-commerce on AJIO** (ExpressJS, Vite+React, Node.js, MongoDB)

[Website Link](#)

  - Spearheaded a user-friendly interface for the shopping website, incorporating **MERN Stack**, leading to a 20% increase in user engagement and a 15% decrease in bounce rate. Deployed CRM and SEO tools to optimize web content and drive organic traffic, resulting in a 30% increase in conversion rates and boost in online sales revenue.
- Fittify - One Stop Health Platform** (MERN Stack)

[Github Link](#)

  - Engineered a comprehensive health solution using React.js and **Node.js**, piloting it with 150 students. Achieved 95% user satisfaction and 25% improvement in health metrics through personalized medical record tracking, diet plans, and workout routines. Successfully scaled to 500+ users while maintaining performance and intuitive UI made with **Tailwind CSS**.

## Awards & Extra-curriculars

- AI Business Fellow at **Perplexity** - Diving deep into realm of AI with industry leaders in USA.
- 3x Hackathon **Winner** - Built AI Agents, AI Hedge Fund, Tutor AI.
- National Level Baseball Player at **MIT-WPU, India** - Runners up in Semi Finals representing University of Mumbai.