Nimish Bongale
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WORK EXPERIENCE

Senior Research Software Engineer (SDE III)
JPMorganChase

03/2021 - Present   *Bengaluru, Karnataka, India*
Full time – Hybrid

- Building **patent-ready agentic framework** using **GenAI, LLMs & RAGs** by quantizing & deploying several **LLMs** & **SLMs** on **cloud** & the **edge.**
- **Fine tuned** & **quantized Phi3, OnnxRuntime, Llama3 & Whisper** & deployed to **AWS Sagemaker,** achieved a **100+** tokens per second with very **large context windows.**
- Worked on a **new revamped productivity tool** impacting over **250,000+** users using a **patent-pending** micro-frontend architecture.
- Lauded with "**Software Engineer of the Quarter**" award for "**Excellence in Delivery & Leadership**" among several other recognitions.

Google Summer of Code Research Developer
Rucio - European Council for Nuclear Research (CERN)

06/2022 - 10/2022   *Geneva, Switzerland (Remote)*
Open Source Contributions

- Worked on the **Rucio** Open Source project dealing with **Scientific Data Management** for **Large Hadron Collider** runs generating **15+ petabytes** of data daily.
- Collaborated with scientists from **ATLAS** & **CMS** experiments to **transform & rearchitect** Rucio WebUI architecture within **4 months**.

Google Season of Docs Technical Writer
Creative Commons

06/2020 - 03/2021   *Mountain View, CA (Remote)*
Open Source Contributions

- Penned out a how-to guide to use the CC Vocabulary UI components. Designed and developed a **unified site leading to an integrated documentation** for each for Vocabulary, Vue-Vocabulary and Fonts.

PROJECTS

SatIRES - Sustainable Resource Management By Reconnaissance of Ecological Systems
Architected an intelligent satellite imaging based application which determines the impact of polution on solar energy generation and produces a dollar forecast.

JanDhan 2.0 - Financial inclusion for All
Built a full end-to-end solution consisting of a cross Platform Mobile Application serving as GIS enanling Financial Inclusion for the Government of India.

BOT AndThenThereWereNone - Strong Chess Bot
Engineered a strong chess bot based on Stockfish 12's efficiently updatable neural network (NNUE) running on 12GB RAM from pythonaywhere.

HFLAV SWAN - LHCb Experiment for Anomaly Detection
Coded an In-browser interactive averaging of CERN collision data from the Large Hadron Collider Beauty Experiment (LHC-b) using Viola, deployed on Firebase.
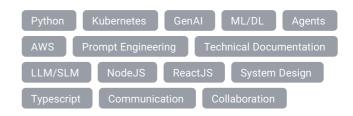
DocAid - Streamlining EHR
Utilized QR Code auth for the purpose of sharing EHR data whilst easing out the hassle of medical appointments & providing intelligent suggestions to doctors.

CoffeeScan - Find your perfect coffee beans!
Used Digital Image Processing concepts related to image functions & ResNet34 for classification. Based on just images the quality of the coffee is determined & anomalies are detected.

SKILLS

Python · Kubernetes · GenAI · ML/DL · Agents · AWS · Prompt Engineering · Technical Documentation · LLM/SLM · NodeJS · ReactJS · System Design · Typescript · Communication · Collaboration

EDUCATION

Bachelors of Engineering - Information Science
Ramaiah Institute of Technology

2017 - 2021   *CGPA: 9.59/10*

- **Best College Outgoing Student 2017 - 2021, top 4%** from Dept.
- Operations Research, Data Science, Image Processing, NLP, Software Engg, Innovation & Entrepreneurship, Machine Learning

Masters of Science - Computer Science
Georgia Institute of Technology

2025 - Present
ML Specialization

- Machine Learning, Deep Learning, Knowledge-Based Artificial Intelligence - Cognitive Systems

CERTIFICATIONS & ACHIEVEMENTS

AWS Certified x2 (Developer Associate, Cloud Practitioner)

Founder at Numera, The Logic & Reasoning Club of RIT

Won 5x National & International Hackathons, HackMIT

Full ReactJS + React Native Development Course

Won 5+ chess competitions at all levels

Technical Writer @DigitalOcean for Write For DOnations

IEEE CCEM Conference Project Presentation - DocAid

Aasmaan, Tare Zameen Par, Spastiks Society NGO Volunteer

PUBLICATIONS

Spider Monkey Optimisation Algorithm - Springer
Published a book chapter for their volume "Nature Inspired Computing for Data Science" under the series "Machine Learning for Intelligent Decision Systems". Submitted to indexing in SCOPUS, Google Scholar and Springerlink.

LANGUAGES

English, Marathi
Native or Bilingual Proficiency

Hindi, Kannada
Professional Working Proficiency