

Vinay Kumar Tanneeru

AI/ML Engineer

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PROFESSIONAL SUMMARY:

Co-Founder and Founding Machine Learning Engineer at a healthcare-focused AI startup, developing practical AI-driven solutions to improve patient engagement and clinical workflow automation. Experienced in building production-oriented ML pipelines, performing data analysis, model training, evaluation, and integrating machine learning capabilities into real-world applications. Strong foundation in Python-based development using NumPy, Pandas, Scikit-learn, and deep learning frameworks such as PyTorch.

TECHNICAL SKILLS:

Platforms & Systems

Linux, Cloud Platforms (AWS), Machine Learning Platforms, Healthcare AI Systems

Cloud & Infrastructure

Cloud Infrastructure, Distributed Computing, Scalable AI Systems, Data & Model Pipelines

Automation & DevOps

CI/CD Automation, MLOps Foundations, Model Monitoring, Infrastructure as Code Basics

Software & Scripting

Python, PyTorch, Scikit-learn, Backend Engineering, Bash, REST APIs

Architecture & Performance

End-to-End ML Architecture, Distributed AI System Design, Deployment Optimization, Production Model Performance

AI Engineering Tools

Cursor AI, Claude AI (Anthropic), AntiGravity AI, LLM Developer Tooling, Rapid Prototyping Workflows

PROFESSIONAL EXPERIENCE:

Neuralyn LLC, Chicago, IL, USA - Co-Founder & Founding Machine Learning Engineer Feb 2026 – Present

- Designed and developed end-to-end machine learning and NLP solutions to support healthcare workflow automation for clinics and diagnostic centers.
- Built scalable AI pipelines including data preprocessing, model experimentation, evaluation, and deployment into real-world applications.
- Collaborated with the founding team to define product and technical strategy, translating healthcare business needs into production-ready AI features.
- Integrated AI capabilities into backend systems, enabling patient engagement workflows such as reminders, summaries, and decision support via WhatsApp/SMS-first channels.
- Applied MLOps and DevOps best practices to ensure reliable model performance, monitoring, and continuous improvement in a fast-paced startup environment.
- Documented system architecture, model design decisions, and operational processes to support long-term scalability and product adoption.

Wipro, India - Java Software Engineer (Apprenticeship)

Apr 2022 – May 2023

- Completed a structured apprenticeship program focused on Java-based software development and enterprise application fundamentals.
 - Developed and tested core Java applications using object-oriented programming principles, data structures, and debugging practices.
 - Assisted in building backend components and supporting application development tasks within an agile team environment.
 - Gained exposure to software development lifecycle (SDLC), version control, and collaborative engineering workflows.
 - Strengthened foundational skills in Java, SQL, and problem-solving through real-world project simulations and hands-on training.
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CERTIFICATIONS:

- National Level Project Expo - 2022
- APSSDC Certified AWS Cloud Computing - 2021