Nanda Kumar

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A highly motivated and detail-oriented Electronics and Communication Engineering graduate and AI Engineer and Full Stack Developer with hands-on experience building intelligent applications using LLM frameworks. Currently developing AI agents and scalable solutions at Wipro Limited's WAPTE team using LangChain, LangGraph, Pydantic AI, FastAPI, and React. Proven ability to transform complex business requirements into production-ready AI-powered applications with modern web technologies.

EDUCATION

HKBK COLLEGE OF ENGINEERING   Karnataka, Bangalore
Bachelor of Engineering in Electronics and Communication Engineering   *Nov 2021 – Sept 2025*
CGPA – 9.27

Indian Academy Pre-University College   Karnataka, Bangalore
Physics Chemistry Mathematics Biology (PCMB)   *June 2019 – July 2021*
Percentage – 93.83%

Immanuel English High School   Karnataka, Bangalore
SSLC   *June 2005 – May 2019*
Percentage – 87.36%

TECHNICAL SKILLS

Frameworks: Langchain, Langgraph, Pydantic-AI.
Programming Languages: Python, JavaScript, C, Verilog.
Frontend: HTML/CSS/JS, React.js, Tailwind CSS, Shadcn UI
Backend: FastAPI, RestAPI, GraphQL.
Database: MongoDB, PostgreSQL, Supabase, SQLite.
Tools & DevOps: Git/Github, Docker.
Software/Tools: Microsoft Office, Microsoft PowerPoint, Visual Studio Code.
Soft Skills: Teamwork and Collaboration, Problem-Solving, Multitasking.

INTERNSHIPS

PROJECT INTERN | WIPRO LIMITED | LINK   *Jun 2025 – PRESENT*
- Developed and maintained AI-powered applications as part of the WAPTE team
- Built intelligent AI agents using LangChain and LangGraph frameworks for various business requirements
- Implemented full-stack solutions with FastAPI backend and React frontend using shadcn/ui and Tailwind CSS
- Designed and deployed Pydantic AI models for structured data validation and type-safe operations
- Collaborated with cross-functional teams to deliver scalable AI-driven applications

WEB DEVELOPMENT INTERN | OCTANET SERVICES PVT LTD |LINK   *Aug 2024 – Sept2024*
- Demonstrated exceptional dedication, enthusiasm, and a strong willingness to learn throughout the internship.
- Actively engaged in various projects and tasks, contributing to significant outcomes.
- Developed a landing website and created a To-Do List application, showcasing remarkable skills in web development and project execution.
- Exhibited a high level of professionalism in all assigned tasks.

SOCIAL INNOVATION INTERN | COMEDKARES INNOVATION HUB |LINK   *Nov 2023 – Dec2023*

- Promoted innovative activities among students by developing projects aimed at solving real-world problems, such as helping individuals with physical disabilities overcome challenges when transferring from a wheelchair to a bed.
- Supported staff members in their daily tasks, reducing workload and enabling them to focus on higher-priority assignments.
- Gained valuable industry experience by applying academic knowledge directly to relevant work situations.
- Organized and sorted files, spreadsheets, and reports, ensuring efficient workflow and data management.
- Enhanced technical proficiency by gaining hands-on experience with various software programs, significantly expanding my technical skill set.

PROJECTS

ADVANCED RAILWAY SAFETY AND AUTOMATION SYSTEM   Arduino | IoT | **Research Paper**   *May 2025*
- Developed a smart railway system using Arduino and sensors for obstacle detection, fire suppression, and crash monitoring.
- Enabled automatic train halts at stations and in emergencies using IR, flame, and vibration sensors with real-time GSM/GPS alerts.
- Automated railway gate control with IR sensors and servo motors to prevent collisions and enhance crossing safety.
- Integrated ESP32-CAM and IoT modules for live image capture and remote monitoring, improving overall railway safety and efficiency.

TO-DO-LIST   HTML|CSS| JavaScript **| GitHub**   *August 2024*
- Developed a responsive To-Do List webpage to help users efficiently manage tasks.
- Implemented features such as adding tasks and marking tasks as complete, enhancing user interaction and functionality.
- Designed for individuals focused on improving productivity, with a clean, user-friendly interface.

LANDING WEBSITE HTML|CSS| JavaScript **| GitHub**   *August 2024*
- Developed a seamless platform connecting users with local doctors, aimed at making healthcare more accessible and convenient.
- Enabled features for immediate assistance or booking appointments, helping users easily reach out to trusted medical professionals nearby.
- Created a frontend-only webpage focused on enhancing the user experience in healthcare services.

ATM MACHINE   Python| **GitHub**   *Sept 2024*
- Developed a basic console-based banking application using Python, simulating real-world banking functionalities.
- Implemented features like account creation, deposit/withdrawal, balance inquiry, and PIN change.
- Ensured secure transactions by validating account number and ATM PIN.
- Utilized Python dictionaries for efficient storage and retrieval of account data.
- Integrated pyttsx3 (text-to-speech) library to enhance user interaction and accessibility.
- Designed a simple, menu-driven interface to ensure ease of use for all users.

BEVERAGE BUDDY – BILLING SYSTEM Python | Tkinter **| GitHub**   *Mar 2025*
- Developed a GUI-based café billing system using Python, simulating real-world beverage and snack ordering scenarios.
- Enabled users to select items like Tea, Coffee, Cake, etc., using quantity selectors and real-time updates.
- Integrated QR code generation to encode the entire bill dynamically for easy scanning and digital payment.
- Designed and generated stylized PDF receipts using the Report Lab library with custom logos and color themes.
- Ensured seamless GUI interaction with Tkinter, including Reset and Order Finalization buttons.
- Organized all bills in a structured folder and auto-saved QR codes alongside for reference or reuse.

CERTIFICATES

- Certificate of Internship: SOCIAL INNOVATION INTERNSHIP
- Certificate of Internship: WEB DEVELOPMENT INTERNSHIP

- Sensors to Cloud: IEEE
- The Complete Python Bootcamp from Zero to Expert – Udemy
- VLSI System On Chip Design – Maven Silicon

ACHIEVEMENTS

- Won a 100dollar bounty from ICP Crew sphere's UR-Hackathon 3.0
- Secured 100 Marks in Mathematics in 2nd and 4th Semester

INTERESTS AND HOBBIES

Reading Books, Cricket, Badminton, Watching Movies

LANGUAGES

- English
- Kannada
- Tamil
- Hindi