NIRMAN KUMAR

Python Developer

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SUMMARY

Detail-oriented Computer Science graduate with hands-on Python development experience and a strong track record of diagnosing, debugging, and resolving issues across data pipelines, web applications, and backend systems. Comfortable acting as a first point of contact for technical problems — investigating root causes, documenting fixes, and collaborating with cross-functional teams to keep business-critical systems running smoothly. Builds on a foundation in SQL, Pandas, NumPy, Power BI, and applied Generative AI/LLM tooling (LangChain), with experience automating reporting and cutting manual workload by up to 80%.

TECHNICAL SKILLS

- **Programming & Debugging:** Python, SQL, PHP, JavaScript, root-cause analysis, application troubleshooting, error/log review
- **AI & Generative AI:** Machine Learning, Generative AI, Large Language Models (LLMs), LangChain, PyTorch, TensorFlow, Computer Vision
- **Backend & APIs:** FastAPI, Flask, RESTful APIs, Backend Development
- **Databases & Caching:** MySQL, PostgreSQL, SQLite
- **Data & Analytics:** Pandas, NumPy, PySpark, Power BI, Excel, Data Cleaning, Web Scraping, Apache airflow
- **Cloud & DevOps:** AWS, Docker, CI/CD, Git, GitHub, DataBricks

PROFESSIONAL EXPERIENCE

Junior Web Developer — Artvision Studio Pvt. Ltd. Jun 2025 – Dec 2025 | Patna, India

- Built and maintained data-driven web applications using HTML, CSS, JavaScript, and PHP, implementing backend validation and caching that improved page load performance.
- Designed a SQLite-backed employee management system with structured data storage, secure login, and an admin panel for tracking and reporting on employee profiles.
- Investigated and resolved application bugs and data-integrity issues by reviewing logs and validation errors, documenting fixes to support future troubleshooting.

Programmer — Software Education & Research Pvt. Ltd. Jan 2024 – Aug 2024 | Patna, India

- Analyzed and cleaned low-quality image data to improve facial recognition accuracy; built a SQL-based duplicate detection and grouping system to structure and de-duplicate records for client State Election Commission, Bihar.
- Developed a real-time NSE options analytics platform, processing live market data feeds to surface trading insights.
- Built a Python-based routing tool that analyzes multi-path coordinate data to calculate optimal routes.
- Diagnosed data-quality and pipeline issues during processing, working with the team to identify root causes and implement corrective fixes.

Python Intern — CSDT IT Solutions Dec 2022 – Feb 2023 | Patna

Python Intern — Splen Technologies & Education Pvt. Ltd. Jun 2021 – Jul 2021 | Remote

PROJECTS

- **Customer Shopping Behavior Analysis —** Analyzed 3,900+ retail transactions using Python, SQL, and Power BI to segment customers and uncover behavior patterns; found subscribers drove 45% of revenue with a 78% loyalty rate and express-shipping customers spent 12% more per order, informing targeted retention strategies. [GitHub]
- **Stock Price Prediction & Portfolio Simulation —** Analyzed historical price and news data to forecast stock performance; built a portfolio simulation tool to optimize risk through diversification. [GitHub]
- **Face Mask Detector —** Trained and deployed a real-time computer vision classifier to detect masked vs. unmasked individuals from live camera data. [GitHub]
- **Contextual Chatbot —** Implemented a Seq2Seq model with attention to analyze dialogue context and generate dynamic responses, applying Generative AI/LLM concepts relevant to modern AI-assisted support tooling. [GitHub]
- **NGO Website & Reporting System (Samajik Jan Kalyan Parishad) —** Built an admin dashboard with CRUD data operations and real-time reporting, cutting admin workload by 80%; automated PDF/QR certificate generation, reducing issuance time by 90%. [Web Link]

EDUCATION

Bachelor of Technology in Computer Science & Engineering *2019 – 2023*
Bihar Engineering University, Patna — CGPA: 7.81/10

CERTIFICATIONS

- Artificial Intelligence — NASSCOM [Certificate]
- Cloud Computing — NPTEL [Certificate]
- The Joy of Computing Using Python — NPTEL [Certificate]
- PHP and MySQL — Spoken Tutorial, IIT Bombay [Certificate]
- Cybersecurity Virtual Internship — Cisco Networking Academy [Certificate]

LEADERSHIP & ACTIVITIES

- President, DAKSHA (college student community) — Jan 2022 – Dec 2022
- Headed cultural and sports fest IGNIS-2022, LNJPIT Chapra