Krishna Kumar Verma

📞 7905968734 — ✉ krishnakrverma97@gmail.com — 🔗 linkedin.com/in/verma29897 — ⬛ github.com/verma29897

Summary — I'm a software developer with a strong background in Python, machine learning, and data analysis. With experience in building scalable solutions, developing APIs, and working on cloud-based applications, I've focused on improving system performance and automating processes. I enjoy tackling real-world challenges, continuously learning, and contributing to impactful projects.

Education

Rajkiya Engineering College Sonbhadra   **2017 – 2021**
Bachelor of Electronics Engineering

Experience

Freelancer   **March 2024 – Present**
Senior Developer (Backend Developer)

Bulk Messaging System Development

– Built a bulk messaging system using Meta's WhatsApp Business API, integrated with CRM for personalized communication, dynamic scheduling, and optimized templates.
– Achieved high approval rates and increased engagement through effective template optimization.

Analytics Dashboard Design

– Designed a custom analytics dashboard to track message performance and deliver actionable insights.
– Delivered real-time reporting, improving customer retention by 30

Core Technical Proficiencies

– Data analysis, data visualization, and data modeling.
– Bulk messaging systems utilizing WhatsApp API.
– RESTful APIs, webhooks, and API integrations.

WhiteLint Global Pvt Ltd   **Jan 2023 – Mar 2024**
Software Developer (Research and Development)

Malware Defense Solutions

– Developed Wafer, an embedded Linux solution to combat malware threats like ransomware, viruses, trojans, and worms.
– Implemented real-time packet filters to detect and block malicious packets.
– Preserved network integrity and confidentiality by blocking harmful traffic.
– Analyzed network traffic patterns to identify and resolve performance bottlenecks.
– Implemented firewall rules to secure network and prevent unauthorized access.

Azure IoT Hub Integration

– Developed and deployed an Azure IoT Hub script for live monitoring and real-time data transmission.
– Ensured efficient data ingestion, processing, and storage in an Azure database.
– Optimized scripts for low latency and high performance.
– Configured monitoring tools to proactively track system performance.
– Automated routine tasks, reducing manual effort and increasing productivity.
– Documented system configurations and procedures for team knowledge sharing.

Network Configuration Automation

– Created a Flask web app for remote network configuration via SSH.
– Managed static and dynamic IPs via the web app for easy configuration.
– Implemented cloud migration strategies to move applications to a hybrid environment.
– Optimized database performance through indexing and query tuning.
– Conducted capacity planning and scalability assessments to support growth.
– Provided on-call support for critical issues and performed root cause analysis.

Sofcon India Pvt Ltd   **Jun 2022 – Dec 2022**
Software Engineer (SWE)

– Developed a comprehensive data science training program using Python and libraries like NumPy, Pandas, Matplotlib, and Scikit-learn.
– Taught data analysis, API design, and machine learning concepts to students.
– Designed and executed industry-relevant projects that focused on real-world data challenges.
– Emphasized hands-on experience in API development, data analysis, and visualization.
– Provided practical exposure to data-driven solutions, helping students apply theoretical knowledge to solve client problems.

Data Science Training May 2021 – May 2022
AlmaBetter (Data Analysis)

- Covered fundamentals of Python programming and key libraries like NumPy, Pandas, Matplotlib, Seaborn, and Scikit-learn.
- Taught machine learning concepts, including supervised and unsupervised algorithms.
- Provided comprehensive training in SQL, Excel, and data analysis techniques.
- Focused on data modeling, visualization, and building predictive models.
- Explored the mathematics behind data science, including statistics and algorithms.

Projects

Weather Detection Prototype 2021

- Built a temperature and humidity measurement prototype using Arduino UNO.
- Integrated specialized sensors for real-time environmental monitoring.
- Demonstrated sensor technology and IoT capabilities.

Hotel Booking Analysis 2022

- Analyzed hotel booking data using Python for city and resort hotels.
- Performed data importing, cleaning, preparation, and visualization.
- Emphasized anonymity of personal data and published results on Github

Market Mood Index (MMI) Scraper and Analysis System 2024

- Scraped and analyzed Tickertape's Market Mood Index (MMI) data.
- Developed API for real-time MMI data and stored historical records.
- Provided market sentiment insights through visualizations and trends.

Skills

Languages	Python, C++, Bash, Golang	**DevOps**	Linux, Shell scripting, Git, Docker, CI/CD
Cloud Tech	AWS-EC2, Nginx, Docker	**Security**	Iptables, Suricata, Pfring, Putty
Databases	PostgreSQL, SQL, MongoDB	**Machine Learning**	Model building, Data preprocessing, Feature engineering, Model deployment using Django/FastAPI
Frameworks	FastAPI, Django, Django Rest Framework		
Libraries	Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Web Scraping		

Certification

- Python Link
- REST API Link
- Data Analysis Link

Achievements

- Earned a 5-Star Python rating on HackerRank.