

# Krishna Kumar Verma

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## TECHNICAL SKILLS

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**Programming Languages:** Python, C++

**Libraries & Frameworks:** FastAPI, Django, Django Rest Framework, Pandas, Matplotlib, Web Scraping, Paramiko

**Machine Learning:** Model building, data preprocessing, feature engineering, deployment using Django/FastAPI

**Cloud & Infrastructure:** AWS-EC2, Nginx, CI/CD, Docker

**DevOps & Security:** Linux, CI/CD pipelines, Shell scripting, Git, Iptables, Suricata, Pfring, Putty

**APIs & Databases:** RESTful APIs, PostgreSQL, SQL, MongoDB

## WORK EXPERIENCE

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### Senior Python Developer

March 2024-Sept 2024

*Itsolutions4India, New Delhi*

- **Developed and Integrated Messaging System:** Built a robust bulk messaging system using Meta's WhatsApp Business API, seamlessly integrating it with the CRM for personalized, timely communication. Implemented dynamic message personalization, scheduling features, and optimized message templates, leading to high approval rates and increased user engagement.
- **Enhanced Performance Tracking and Reporting:** Designed a custom analytics dashboard to monitor message performance, which provided actionable insights and improved customer retention by 30% for real-time reporting and event notifications, ensuring efficient monitoring and response to messaging activities.

### Software Developer (R&D)

Jan 2023 - March 2024

*Whitelint Global Pvt Ltd, New Delhi*

- **Developed Wafer,** an embedded Linux solution, to thwart malware threats like ransomware, viruses, trojans, and worms. Implemented a real-time packet filter to actively detect and block malicious packets, preserving network integrity and confidentiality.
- **Created Flask web app** for remote network configuration via SSH, facilitating easy management of static and dynamic IPs.
- **Organize and handle bugs and issues** reported from users, continuously update software to meet client needs.

### Software Engineer

Jun 2022 - Dec 2022

*Sofcon India Pvt Ltd, New Delhi*

- **Design a comprehensive data science course** integrating Python programming with essential libraries such as Numpy, Pandas, Matplotlib, Seaborn, and Scikit-learn. Proficient in SQL, statistics, and machine learning techniques, providing students with in-depth knowledge and practical training. Tailored course content to meet specific industry demands, executing project development activities to ensure relevance and effectiveness.

### Data Science Training

*Almabetter*

- **Fundamental of python programming,** Library (numpy, pandas, matplotlib, seaborn, sklearn), Machine Learning, SQL, Excel and Data Analysis, Data Modeling, Data Visualization and Math of Data Science.

## EDUCATION

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### Rajkiya Engineering College

Roberts Ganj, Sonbhadra

*Bachelor of Technology in Electronics Engineering*

Aug 2017 - Aug 2021

## PROJECTS

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- **HOTEL BOOKING ANALYSIS,** The project entails Python-based data analysis of hotel bookings, involving processes like importing data, cleaning, preparation, and visualization. It explores factors influencing bookings in city and resort hotels, emphasizing anonymity of personal data. [GitHub](#)
- **WEATHER DETECTION,** Developed a temperature and humidity measurement prototype with Arduino UNO microcontroller and specialized sensors, enabling real-time data collection for environmental monitoring, showcasing sensor technology integration.

- **Market Mood Index (MMI) Scraper and Analysis System**, This project involves developing a comprehensive system to scrape, store, and analyze the Market Mood Index (MMI) from Tickertape's website. The system provides real-time MMI data through an API, stores historical data in a database, and enables data analysis to gain insights into market sentiment trends over time.
- **PDF to Image Converter and Image Data Scraper**, This project is designed to convert PDF files into images and then extract text data from the images using Optical Character Recognition (OCR) techniques. The system utilizes Python libraries like pdf2image for converting PDF pages into image formats such as PNG or JPEG, and pytesseract for scraping text from these images.

## CERTIFICATION

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- Python [Link](#)
- RestAPI [Link](#)
- Data Analysis [Link](#)

## ACHIEVEMENTS

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- 5-Star Python Rating on HackerRank