Prakash rawat

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Education

- **UBTER** — Uttarakhand, India
  Diploma Information Technology Enginerring; GPA: 7.27 — *Aug 2020 - June 2023*
  Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

Skills Summary

- **Languages**: Python, GoLang, JavaScript, SQL, Bash, TypeScript
- **Frameworks**: Scikit, NLTK, SpaCy, TensorFlow, Keras, Django, Flask, NodeJS, ExpressJs, FastAPI, Gin, Fibre
- **Databases**: PostgreSQL, MySQL, MongoDB, Redis
- **Tools**: Docker, Git, Jenkins CI/CD
- **Platforms**: Linux, Web, Raspberry(familiar), AWS(familiar)

Experience

- **Mobiloitte** — OnSite
  Python With AI/ML (Full-time) — *Sep 2024 - Present*
  - **Binance Trading Bot**: Developed a fully automated Binance trading bot with **Martingale, Grid, and DCA strategies**. Built the backend using **Python, FastAPI,** and **WebSockets** for real-time trading. Integrated **Binance API**, **PostgreSQL**, and **Redis** for efficient execution. Implemented risk management, automated trade logging **Docker** deployment.
  - **Crypto Arbitrage Bot**: Designed and developed a multi-exchange crypto arbitrage bot supporting **Binance, OKX, and Kraken**. Built with **Python, FastAPI**, and **WebSockets** for real-time trading. Integrated **PostgreSQL, Redis caching, and Docker deployment**. **Implemented automated trade execution, risk management, API encryption, smart order routing, and background cron jobs** for optimal performance.
  - **Backend API Development**: Engineered a scalable **REST API** to handle backend functionalities. Implemented **Low-level design**, and used **Relational database** for efficient data management. Ensured the seamless communication between the **frontend and backend** components for a cohesive **e-commerce application**.
  - **Bot Data Scraper**: College Data Scraping Developed a bot to collect detailed information from **20,000+ Indian colleges**, including names, contact numbers, emails, and locations.Dynamic Content Handling: Utilized **Selenium and Scrapy** for scraping dynamic web pages and extracting accurate data.Efficient Data Organization Processed and stored the collected data in **Pandas** for easy analysis and structured storage.
  - **ChatBot Intelligent Telegram ChatBot**: Developed a robust and intelligent chatbot leveraging Python 3, Telegram Bot API, and **Llama Model** to handle **natural language** queries effectively. Integrated dynamic responses using advanced language generation techniques, simulating human-like conversations. Implemented scalable and efficient data storage with **MongoDB**, ensuring seamless data retrieval and user context management.

- **webralecon india pvt ltd.** — Remote
  Software Engineer Intern — *Sep 2023 - April 2024*
  - **WebApp Performance boost**: Mentored interns and supported peers for delivering quality features, application testing, in-depth code review, developing optimized solutions and resolving inconsistencies within the system. Enhanced end-user app performance by reducing app bundle size (from 340MB to 246MB) and memory consumption by 18.7%.
  - **Tutorial - Introduction to Reinforcement Learning**: Developed newsletter service: Integrated 7 platforms (WordPress, Slack, MS Teams, Hootsuite, Buffer, RSS feed, and Zapier) into a publishing module, reducing publishing time by 90% (from 20 minutes to 2 minutes). Also, created an automatic newsletter scheduler to enable newsletter delivery to thousands of users using **AWS SNS**.

Projects

- **Vison - multimedia search engine (NLP, Search Engine, Web Crawlers, Multimedia Processing)**: (Work in progress) Research oriented, open source, search engine for bringing reverse multimedia search to small & mid scale enterprises. Tech: Python, NodeJS, Intel OpenVino Toolkit, Selenium, TensorFlow (October '18)
- **Reinforcement Learning based Traffic Control System (Reinforcement Learning, Computer Vision)**: AI model to resolve city traffic around 50% faster. Tech: Python, Alibaba Cloud, Raspberry Pi, Arduino, SUMO & OpenCV. (August '18)
- **Panorama from Satellite Imagery using Distributed Computing (Distributed Computing, Image Processing)**: Images clicked using drones, were stitched together using distributed public compute nodes, effectively bringing down processing time exponentially. Tech: C++, Java, Python (March '18)

Cetifications and Awards

- Full STACK DEVELOPMENT - Cetifications