

## RESUME

**RATNESH KUMAR KUSHWAHA**

[rat.kush@gmail.com](mailto:rat.kush@gmail.com) | 7898617389

[Stack Overflow](#) | [GitHub](#) | [LinkedIn](#) | [Kaggle](#)

BE, ME (Comp. Science)

Ujjain (M.P.) 456010

<https://imratnesh.github.io/>

### SUMMARY

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Senior Software Engineer with 6+ years in Python, LLMs, ML and Deep learning algos. Expert in Flask, Django, LangChain, LangGraph, Ollama, and AWS. Delivered scalable FinTech, IoT, and NLP solutions with RAG-based chatbots, fault tolerance, and low-latency APIs. Improved customer retention via predictive analytics. Certified in Generative AI (Kaggle 2025), GATE qualified, 2× Performer of the Month at Pace Wisdom.

### SKILLS

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- Programming: Python, Scala, Spark
- Frameworks: Flask, Django, FastAPI, LangChain, Ollama, Keras, TensorFlow
- ML/LLM/DL: RAG, FAISS, Hugging Face, Tensorflow, scikit, Keras
- Cloud: AWS (Lambda, S3, EC2, CloudFormation), Vertex AI, Sagemaker
- Databases: PostgreSQL, MongoDB, Vector Databases, Hive
- Tools: Kafka, JIRA, Docker, Git, Tesseract, MQTT, Hadoop

### EXPERIENCE

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#### **Pace Wisdom Pvt. Ltd., Bangalore — SSE L2 (APRIL 2022 - MAY 2025)**

- Architected scalable APIs(Flask, Django, FastAPI) and Kafka-based jobs for Appreciate FinTech, reducing latency by 30% and supporting 10K+ daily users. `ollama run imratnesh/ratnesh-bot:v1`
- Developed LLM-powered chatbot using LangChain, Langgraph, and Ollama, improving query resolution accuracy by 25% for compliance and user data retrieval. Ref: `ollama run imratnesh/ratnesh-bot:v1`
- Mentored 5 junior developers, boosting team productivity by 15% through Agile practices and code reviews.

#### **Azilen Technologies Pvt. Ltd. — Contract (JULY 2021 - DEC 2021)**

As a developer, I worked on Python and Scala languages and did test driven development for the Health Domain project. Collaboration with Team and followed Agile method. Conducted comprehensive code reviews to ensure adherence to best practices to convert Scala projects to Python.

#### **Infobeans, Indore — Associate Software Engineer (FEB 2021 - JULY 2021)**

As a developer, I worked for a client using Python, Document classification project. Third party API calls related to Maps and PDF processing. Authentication using OTP and Email. Developed robust, scalable solutions.

#### **High IQ, Hyderabad — Solution Architect (DEC 2019 - FEB 2021)**




Developed an end-to-end document classification pipeline using AWS Sagemaker and Tensorflow Keras, achieving 90% accuracy. Used Deep learning model CNN algorithm.

#### **Emorphis, Indore — Software Engineer (SEP 2018 - NOV 2019)**

Worked on IoT Product as Python developer and learned and worked on multiple skills. Applied multithreading concept and did Audio classification.

## **Saras InfoTech — Freelance (DEC 2014 - AUG 2018)**

Worked on Java Based projects, Government projects and Private projects.

Ref:  [GRS.pptx](#)  [UMC screenshot.pdf](#) and  [DPreport.pdf](#)

## **KEY PROJECTS**

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### **Social Good Website — FastAPI, Postgres, RAG, LLM**

- Built SaaS platform for CSR, connecting 100+ corporates and NGOs with scalable microservices.
- Deployed RAG-based chatbot using Ollama, achieving 95% accuracy in regulatory query responses by fine-tuning model. Used caching and fault tolerance approach better performance and improve latency

### **Leave Management System — Django, LLM, FAISS**

- Developed APIs for leave calculations, integrating LangChain chatbot for user-specific data retrieval.

### **Appreciate App — Flask, ML, Postgres, Data analytics, Kafka, Pyspark**

- Architected scalable APIs and background jobs for Appreciate FinTech app using Flask, AWS, and Kafka, reducing latency by 30% and supporting 10K daily users.
- Developed end-to-end NLP solutions with LangChain and MongoDB, deploying LLMs for churn prediction improving user retention by 20%.
- Implemented referral, coupon, and notification systems with network graph analysis, boosting user engagement by 65% on a daily basis.

### **Intelligent Document Classification — Python, AWS, ML and AI**

- Served as ML expert, leveraging Tesseract, multithreading, and AWS Sagemaker for OCR, NLP, and document classification projects, enhancing processing efficiency.
- Developed an intelligent document classification system using CNN algorithms, enabling accurate PDF processing, labeling, and deployment for streamlined workflows., improving classification accuracy for PDF documents by 85%

### **IoT device anomaly detection — Python, Deep learning, Pyspark, Hive**

- IoT Gateway - Device provisioning, MQTT/TCP Communication, PubSub, Topic Predictive Modelling-FFT, Clustering, Anomaly Detection - Autoencoder-PCA, [TensorBoard](#)
  - Audio Classification using Keras Tensorflow with 95% of accuracy.
- Python3 module: pip install ratneshpy | [R Shiny](#)

## **EDUCATION**

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### **M.E. | Computer Engineering | SGSITS, Indore (Govt. Autonomous)**

CGPA 7.56 | [Thesis](#) on Composition of Semantic Web Service on Cloud : A QoS View.

### **B.E. | Computer Science | Ujjain Engineering College (Govt. Autonomous)**

Percentage 65.59 | Major Project on Smart City

## **DECLARATION**

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I hereby declare that the information provided above is true and correct to the best of my knowledge and belief

**Place: Ujjain (M.P.)**

**Date: June 2025**