

# UTKARSH RAJ

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## SUMMARY

Highly motivated and results-oriented Software Developer with **3+ years** of experience as a **Full Stack AI Developer**, specializing in backend systems and architecture. Proven ability to lead and collaborate effectively in **fast-paced early startups** and **product-based** companies. Skilled in a variety of programming languages, frameworks, and cloud technologies, with a strong focus on building scalable AI systems. I am enthusiastic about contributing my skills to further company objectives while continuing to enhance my capabilities

## TECHNICAL SKILLS

**Back End Development:** Java, Python, Spring Boot, Flask, Node.js, PostgreSQL, ElasticSearch, MilvusDB, Redis, Kafka, AWS, Azure, Docker, Linux, Microservices, Kubernetes, High Level Design, Low Level Design

**Front End Development:** JavaScript, JSP, React, Next.js, HTML, CSS

**Miscellaneous:** Conversational AI, Machine Learning, Deep Learning, Prometheus, Grafana

## PROFESSIONAL EXPERIENCE

### Lenskart, Bengaluru: Software Developer

May 2023 – current

- Productionized **Visual Search** to provide frame suggestions based on visually similar frames by leveraging YOLOv5 for frame detection, MilvusDB for vector search and integrated it with product listing and sorting API.
- Designed, developed, and integrated a spring boot compatible library for encrypting, decrypting and masking of **Personally Identifiable Information (PII)** data stored in databases or in network transit and ensuring compliance with **data protection laws**.
- Revamped the gift voucher flow by integrating it with our internal authorization and authentication service for CRUD operations, achieving **granular access control** and **improved security**.

### Salesken, Bengaluru: Software Developer

July 2021 – May 2023

- Joined the company in its early growth stages and spearheaded the platform's development **from Series A through Series B** funding (backed by Sequoia Capital and Microsoft), leading the transformation from a two-participant **sales call** to a multi-participant architecture for analyzing **sales activities** such as conference calls, webinars, SMS, emails etc.
- Led a **team of 5** to design, develop, and scale the Sales Activity Analysis Engine V2 from scratch while also migrating the reporting queries from PostgreSQL to Elasticsearch, implementing semantic search, text completion, and fuzzy search using BERT and USE embeddings, resulting in **increased load capacity, faster page loads, and enhanced user experience**.
- Led the development and scaling of **Meet Bot** from **PoC to production**, enabling automated attendance tracking, recording, and live streaming audio from Google Meet, Zoom and WebEx using Puppeteer, Node.js, Web Sockets, Docker and Kubernetes.
- Design, develop, and scaled two core services from scratch **CRM Sync** and **CRM Import** that enabled seamless data synchronization from major CRMs like Salesforce, HubSpot, and Salesloft; collaborated with the integration team to implement connectors. Handled periodic polling and pushing data, batch imports, S3 storage and Kafka to ensure efficient, scalable data management.
- Developed a deployment bash script that streamlined new environment setups and strategically migrated systems from AWS to Azure, and later to local GPU servers, **optimizing performance** and **reducing costs**.
- Created multiple dynamic reporting pages using HTML, CSS, Javascript, JSP, React including backend APIs, PostgreSQL and Elasticsearch queries.

### Salesken, Bengaluru: Software Developer Intern

Sep 2020 – Mar 2021

- Contributed in the development of **real time cue generation** engine for live sales activity based on conversation meaning, using **web socket, BERT** and **MilvusDB**.
- Spearheaded the development of a predictive model for lead conversion forecasting, and revenue intelligence achieving **86% accuracy** using Google AutoML, H2o.ai, Spring Boot and XGBoost.
- Created Interactive Voice Response (IVR) systems using Twilio SDK to verify user's phone numbers.
- Contributed in the migration of codebase from JAX-RS to Spring Boot

PERSONAL PROJECTS

<b>EarTikl (eartikl.com)</b>	July 2024 – Aug 2024
EarTikl is an AI-powered music generation and translation platform focused on creating background music for ads, currently it is a prototype featuring a music player with generative music capabilities. Tech stack used: WavCraft, ReactJs, Spring Boot, Python, Flask, AWS. Github link, Demo link	
<b>CareerIn Platform</b>	Aug 2020 – Sept 2020
Led the full-stack development of CareerIn, a professional career counseling platform that employs AI-driven questionnaires to predict optimal career paths and provides insights into industry trends and alternative career possibilities. Tech stack used: H2o.ai, Spring Boot, XGboost, JSP, and PostgreSQL. Github link	
<b>Movie Recommendation System</b>	June 2019
Made a Movie Recommendation based on user rating using Netflix Dataset. Tech stack used: Machine Learning, SCIKIT-Learn, NumPy, Pandas, Matplotlib. Github link	

ACHIEVEMENTS

<b>Employee of the Quarter award</b>
Received the "Employee of the Quarter" recognition for my contribution in the development of analysis engine in the record time of 15 days.

EDUCATION

<b>Computer Science and Engineering</b>	2017-21
BIT Sindri, Dhanbad, Jharkhand, IN	7.2 CGPA
<b>12th   CBSE</b>	2017
DAV Koyla Nagar, Dhanbad, Jharkhand, IN	88%

ORGANIZATIONS

<b>Prayaas India (NGO), BIT Sindri: Teaching and Management</b>	2017 – 2019
<ul style="list-style-type: none"><li>• Provided tutoring and support for underprivileged students (Class 1-10), collaborated with volunteers to create an inclusive learning environment, curriculum development, assessment, and community outreach.</li></ul>	
<b>The Arts Club, BIT Sindri: Violinist &amp; Treasurer</b>	2018 – 2021
<ul style="list-style-type: none"><li>• Participated and won multiple competitions. Managed finances and played a key role in organizing and hosting cultural festivals.</li></ul>	

CERTIFICATIONS AND COURSES

<b>Webtek Labs Pvt. Ltd, Kolkata: Summer Trainee</b>	July 2019
<ul style="list-style-type: none"><li>• Worked as a summer trainee. Worked on various ML-based projects including World Happiness report and Movie Recommendation using Netflix Dataset.</li></ul>	
<b>StruckHigh, Remote: Web Developer Intern</b>	July 2017
<ul style="list-style-type: none"><li>• Developed and managed both front and back end using WordPress.</li></ul>	

HOBBIES AND INTERESTS

<ul style="list-style-type: none"><li>• Playing Violin</li><li>• Listening/Composing music</li><li>• Flashing and testing custom Android ROMs</li></ul>
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