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# Narpat Ram Kalwaniya

Tech Lead

## Education

### Dual Degree in Agricultural and Food Engineering

Jul '17 - Jul '22

### Indian Institute of Technology Kharagpur

Kharagpur, India

*Micro Specialization in Entrepreneurship and Innovation*

## Professional Experience

### Lead (Application Engg) | Tiger Analytics, Bangalore

Jan'25 - Present

Leading feature integration, refactoring, and scalable architecture across React and FastAPI, Driving end-to-end development, code reviews, and cloud-native deployments using AWS (S3, RDS, EC2), with a focus on performance, maintainability, and CI/CD automation of a marketing mix application

### Senior Engineer (App Engg) | Tiger Analytics, Bangalore

Jun'23 - Dec'24

**Project 1:** Collaborated with a multidisciplinary team of Consultants, Data Scientists, DevOps Engineers, and Developers to architect and launch a feature-heavy **B2B marketing mix application**. Leveraged React with TypeScript and Material UI to develop a highly responsive, scalable, and visually intuitive user interface. Designed and implemented a suite of reusable, modular components, including dynamic charts, data tables, dropdowns, file upload/download capabilities, and streaming features. Used **FastAPI** to create **RESTful APIs**, integrated them for seamless data retrieval & submission, utilizing **React Query** for efficient client-side caching and **Redux** to manage complex application state, API interactions, and global data flow

**Project 2:** Designed and developed OCR, Translate, and Image Generator applications with features like file handling and user feedback (like, comment), optimized workflows using S3 presigned URLs, integrated **WebSocket** communication, and improved prop flow with **Context API** for a **GenAI application**

### Analyst (Data Science) | Tiger Analytics, Chennai

Jun'22 - May'23

Estimated the **Conversion Likelihood of Opportunities** using statistical tests, EDA & feature engineering, building a logistic regression model

## Projects

### PrepMe.Ai

Mar'25 - Present

Leading the development of a student-focused application using React and TypeScript for front-end, FastAPI for backend, and AWS infra for hosting & storage. The platform enables students to upload & curate content, interact with LLMs for personalized learning, and create & take custom assessments

### Analytics Dashboard | Quick Commerce

Apr'25

Developed scalable, JSON-controlled data visualization components using React, MUI, and Recharts, leveraging **Cube.js** for efficient data querying

## Internships

### Process Excellence Intern (DS) | EpiSource, Chennai

Jan'22 - May'22

Accustomed to medical coding and leveraged data analytics tools to adjust the penalty risk associated with US Health Insurance Business; Programmed multiple algorithms in **SQL & pandas** to process medical claims, codes, and pharmacy data retrospectively to flag issue codes

### Business Analyst DS Intern | Sitel Group India, Mumbai

Jun'21 - Jul'21

Supported a leading tire manufacturer in automating customer service by tagging 10,000+ customer reviews for topic extraction and sentiment analysis

### Data Science Intern | Curl Analytics, Bangalore

May'21 - Aug'21

**Project1:** Leveraged python (pandas) for generating personalized insights, performing EDA, performing feature importance & engineering new features

**Project2:** Automated the extraction and reorganization of data output from pdfplumber and easyocr into word, line, paragraph and page levels

### Machine Learning Intern | VegaMX Inc., USA

May'19 - Jul'19

Developed a Corn Yield **Prediction Model** using 38 years of climate, satellite, and geospatial data, improving MAE from 9.12 to 3.14

### Graphic Designer | CheckMyGaadi, New Delhi

Dec'20 - Mar'21

Designed and executed publicity strategies to attract a larger audience, creating over 100 engaging creatives using Adobe Photoshop and Illustrator

## Extra Curricular Activities

- **President, Prakriti 2021:** Elected representative of AgFE Department responsible for the conduction of annual Agri and Food innovation festival
- **Governor, RCA IIT KGP:** Responsible for the management of 41 members team including Sponsorship, Management, Publicity and Graphic Design
- **RK Hall IIT KGP:** Vice Captain of Silver winning Illumination team | Awarded as Best Secretary 2018-2019 | Bagged 2 silver medals in Athletics GC

## Skills

React JS (Redux/Context/TanStack), Redux, UI/UX, JavaScript, TypeScript, Material UI, HTML/CSS, REST, Node.js, AWS, Web3, Python, SQL, Cubels, FastAPI, Git/GitHub/Bitbucket, Docker, Artificial Intelligence, Data Structures and Algorithms, System Design, Analytics, Problem Solving