

PREM KUMAR



IIT Madras
B.S. Degree

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SUMMARY

Aspiring data science professional skilled in data analysis, machine learning, and web development. Proven track record of delivering impactful projects. Experienced in leveraging Generative AI technologies to drive innovative solutions.

EDUCATION

Indian Institute of Technology Madras

Bachelor's Degree in Data Science and Applications

R.K.D College, Kankarbagh, Patna

I.Sc. (82.8%)

G.B.P.S Cantt Area, Gaya

Xth (9.6 CGPA)

Chennai, Tamil Nadu

Jan. 2021 – Jan. 2025

Patna, Bihar

2017 – 2019

Gaya, Bihar

2017

EXPERIENCE

Generative AI Engineer Intern

Loqo AI

Jul. 2024 – present

Bengaluru, Karnataka - Remote

- Developed a text-to-video generator app and fine-tuned GPT-3.5, GPT-4, and OpenAI Codex for enhanced performance.
- Worked on APIs, Retrieval-Augmented Generation (RAG) models, and AI agents for autonomous task execution.
- Designed effective prompts to ensure accurate and tailored outputs from AI models.

Software Developer Intern

7 Miles Per Second

Aug. 2024 – Nov. 2024

Chennai, Tamil Nadu - Remote

- Led app development projects from design to deployment, collaborating across teams.
- Enhanced technical and leadership skills through innovative projects.

WebOps Intern

Medical Network Pvt. Ltd.

Jan. 2024 – Jun. 2024

Patna, Bihar - On-site

- Maintained website functionality and optimized digital infrastructure.
- Provided insights from lead, marketing, and inventory data.

Web Developer Intern

TechoTians

Aug. 2023 – Dec. 2023

Patna, Bihar - On-site

- Developed websites focusing on user experience and performance.
- Analyzed trends to improve marketing strategies.

WordPress Developer & Graphics Designer

Learn Everything AI

Jan. 2023 – Aug. 2023

India - Hybrid

- Designed WordPress websites to improve user experience and engagement.

PROJECTS

WonCourse - AI-Powered Learning Platform | *VueJS, Flask, Python, Generative AI*

- Developed WonCourse, an AI-powered learning platform. Implemented video lectures, coding assistance, and chatbots for queries.
- Used RAG for contextual learner support.

IITM Resume Analyzer | *Python, Flask, GenAI*

- Developed a resume analyzer tool for generating actionable feedback based on IITM BS Resume Guidelines, using OpenAI model.

Business Data Management(BDM) Capstone Projects | *Python, Analytics*

- Conducted in-depth data analysis to support decision-making processes for business development.

Food Recipe Rating Prediction | *Python, scikit-learn*

- Built predictive models to forecast food recipe ratings using logistic regression and random forest, achieving 77% accuracy.

Food Log App | *ReactJS, Edamam API*

- Developed a responsive meal tracking app using Edamam API for nutritional data.

Library Management System | *Flask, VueJS, SQLite*

- Created a full-stack library management system with caching for efficient operations.

Diabeteasy | *Machine Learning, Flask*

- Developed an ML-based diabetes management tool with Google Maps integration for doctor suggestions.

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, SQL
Frameworks & Libraries: ReactJS, Flask, VueJS, Bootstrap, SQLAlchemy, Jinja2
Generative AI & Tools: LangChain, RAG, Fine-Tuning LLMs
Data Science & Analytics: scikit-learn, NumPy, Pandas, Matplotlib, Seaborn
Databases & Data Management: SQLite, Redis, PostgreSQL
Tools & Platforms: Git, Docker, Google Cloud Platform, Celery

CO-CURRICULAR ACTIVITIES

WebOps Team Lead

Nallamala House, IIT Madras

- Led a team for website operations, ensuring smooth functionality and user experience.

EXTRA-CURRICULAR ACTIVITIES

Organizer & Leader

36-Hours Grand Hackathon, IIT Madras

- Organized and led a 36-hour hackathon, fostering innovation and collaboration.

CERTIFICATIONS

Machine Learning using NumPy

IIT Madras BS in Data Science Programme

Oct 2024

Issued by IIT Madras

Soft Skill Development-NPTEL

IIT Kharagpur

Oct 2024

Issued by IIT Kharagpur

AI/ML for Geodata Analysis

Indian Space Research Organisation (ISRO)

Sep 2024

Issued by ISRO

BATM using Python-NPTEL

Indian Institute of Technology, Roorkee

Sep 2024

Issued by IIT Roorkee

Python

HackerRank

Jul 2024

Issued by HackerRank

IoT Foundations: Fundamentals

LinkedIn

Feb 2023

Issued by LinkedIn

Python for Data Science and AI

Coursera

Jan 2023

Issued by Coursera

SQL

HackerRank

Jan 2023

Issued by HackerRank

EigenFaces: Dimensionality matters in Machine Learning

Indian Institute of Technology, Madras

May 2022

Issued by IIT Madras

IT Essentials

Cisco

Jan 2022

Issued by Cisco

Cybersecurity Essentials

Cisco

Nov 2021

Issued by Cisco

Internet of Things (Basic & Advanced)

Indian Institute of Technology, Patna

Jan 2023

Credential ID IIT/QIP-CEP/Course/2023/COE/1290