

# PREM KUMAR



IIT Madras  
B.S. Degree

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github.com/prem-kumar-sharma | Portfolio

## 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

<b>Indian Institute of Technology Madras</b> <i>Bachelor's Degree in Data Science and Applications</i>	Chennai, Tamil Nadu Jan. 2021 – Jan. 2025
<b>R.K.D College, Kankarbagh, Patna</b> <i>I.Sc. (82.8%)</i>	Patna, Bihar 2017 – 2019
<b>G.B.P.S Cantt Area, Gaya</b> <i>Xth (9.6 CGPA)</i>	Gaya, Bihar 2017

## EXPERIENCE

<b>Software Developer Intern</b> <i>7 Miles Per Second</i>	Aug. 2024 – Present Chennai, Tamil Nadu - Remote
<ul style="list-style-type: none"><li>Led app development projects from design to deployment, collaborating across teams.</li><li>Enhanced technical and leadership skills through innovative projects.</li></ul>	
<b>Generative AI Engineer Intern</b> <i>Loqo AI</i>	Jul. 2024 – Aug. 2024 Bengaluru, Karnataka - Remote
<ul style="list-style-type: none"><li>Developed a text-to-video generator app using AI models like GPT-4, BERT, and T5.</li><li>Fine-tuned GPT-3.5 and OpenAI Codex to enhance performance.</li></ul>	
<b>WebOps Intern</b> <i>Medical Network Pvt. Ltd.</i>	Jan. 2024 – Jun. 2024 Patna, Bihar - On-site
<ul style="list-style-type: none"><li>Maintained website functionality and optimized digital infrastructure.</li><li>Provided insights from lead, marketing, and inventory data.</li></ul>	
<b>Web Developer Intern</b> <i>TechoTians</i>	Aug. 2023 – Dec. 2023 Patna, Bihar - On-site
<ul style="list-style-type: none"><li>Developed websites focusing on user experience and performance.</li><li>Analyzed trends to improve marketing strategies.</li></ul>	
<b>WordPress Developer &amp; Graphics Designer</b> <i>Learn Everything AI</i>	Jan. 2023 – Aug. 2023 India - Hybrid
<ul style="list-style-type: none"><li>Designed WordPress websites to improve user experience and engagement.</li></ul>	

## PROJECTS

<b>WonCourse - AI-Powered Learning Platform</b>   <i>VueJS, Flask, Python, Generative AI</i>	
<ul style="list-style-type: none"><li>Developed WonCourse, an AI-powered learning platform. Implemented video lectures, coding assistance, and chatbots for queries.</li><li>Used RAG for contextual learner support.</li></ul>	
<b>Business Data Management(BDM) Capstone Projects</b>   <i>Python, Analytics</i>	
<ul style="list-style-type: none"><li>Conducted in-depth data analysis to support decision-making processes for business development.</li></ul>	
<b>Food Recipe Rating Prediction</b>   <i>Python, scikit-learn</i>	
<ul style="list-style-type: none"><li>Built predictive models to forecast food recipe ratings using logistic regression and random forest, achieving 77% accuracy.</li></ul>	
<b>Food Log App</b>   <i>ReactJS, Edamam API</i>	
<ul style="list-style-type: none"><li>Developed a responsive meal tracking app using Edamam API for nutritional data.</li></ul>	
<b>Library Management System</b>   <i>Flask, VueJS, SQLite</i>	
<ul style="list-style-type: none"><li>Created a full-stack library management system with caching for efficient operations.</li></ul>	
<b>Diabeteasy</b>   <i>Machine Learning, Flask</i>	
<ul style="list-style-type: none"><li>Developed an ML-based diabetes management tool with Google Maps integration for doctor suggestions.</li></ul>	
<b>IITM Resume Analyzer</b>   <i>Python, Flask, GenAI</i>	
<ul style="list-style-type: none"><li>Developed a resume analyzer tool for generating actionable feedback based on IITM BS Resume Guidelines, using OpenAI model.</li></ul>	

## TECHNICAL SKILLS

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**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

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### WebOps Team Lead

*Nallamala House, IIT Madras*

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

## EXTRA-CURRICULAR ACTIVITIES

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### Organizer & Leader

*36-Hours Grand Hackathon, IIT Madras*

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

## CERTIFICATIONS

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### 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*