PREM KUMAR

+91-7488680644 | 21f1000531@ds.study.iitm.ac.in | linkedin.com/in/prem-kumar-a499b1201 |
github.com/prem-kumar-sharma | Portfolio

IIT Madras
B.S. Degree

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   Chennai, Tamil Nadu
Bachelor's Degree in Data Science and Applications   *Jan. 2021 – Jan. 2025*
R.K.D College, Kankarbagh, Patna   Patna, Bihar
I.Sc. (82.8%)   *2017 – 2019*
G.B.P.S Cantt Area, Gaya   Gaya, Bihar
Xth (9.6 CGPA)   *2017*

EXPERIENCE

Software Developer Intern   Aug. 2024 – Present
7 Miles Per Second   *Chennai, Tamil Nadu - Remote*
- Led app development projects from design to deployment, collaborating across teams.
- Enhanced technical and leadership skills through innovative projects.

Generative AI Engineer Intern   Jul. 2024 – Aug. 2024
Loqo AI   *Bengaluru, Karnataka - Remote*
- Developed a text-to-video generator app using AI models like GPT-4, BERT, and T5.
- Fine-tuned GPT-3.5 and OpenAI Codex to enhance performance.

WebOps Intern   Jan. 2024 – Jun. 2024
Medical Network Pvt. Ltd.   *Patna, Bihar - On-site*
- Maintained website functionality and optimized digital infrastructure.
- Provided insights from lead, marketing, and inventory data.

Web Developer Intern   Aug. 2023 – Dec. 2023
TechoTians   *Patna, Bihar - On-site*
- Developed websites focusing on user experience and performance.
- Analyzed trends to improve marketing strategies.

WordPress Developer & Graphics Designer   Jan. 2023 – Aug. 2023
Learn Everything AI   *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.

Business Development Manager (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.

IITM Resume Analyzer | *Python, Flask, GenAI*
- Developed a resume analyzer tool for generating actionable feedback based on IITM BS Resume Guidelines, using OpenAI model.

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	Oct 2024
IIT Madras BS in Data Science Programme	*Issued by IIT Madras*
Soft Skill Development-NPTEL	Oct 2024
IIT Kharagpur	*Issued by IIT Kharagpur*
AI/ML for Geodata Analysis	Sep 2024
Indian Space Research Organisation (ISRO)	*Issued by ISRO*
BATM using Python-NPTEL	Sep 2024
Indian Institute of Technology, Roorkee	*Issued by IIT Roorkee*
Python	Jul 2024
HackerRank	*Issued by HackerRank*
IoT Foundations: Fundamentals	Feb 2023
LinkedIn	*Issued by LinkedIn*
Python for Data Science and AI	Jan 2023
Coursera	*Issued by Coursera*
SQL	Jan 2023
HackerRank	*Issued by HackerRank*
EigenFaces: Dimensionality matters in Machine Learning	May 2022
Indian Institute of Technology, Madras	*Issued by IIT Madras*
IT Essentials	Jan 2022
Cisco	*Issued by Cisco*
Cybersecurity Essentials	Nov 2021
Cisco	*Issued by Cisco*
Internet of Things (Basic & Advanced)	Jan 2023
Indian Institute of Technology, Patna	*Credential ID IIT/QIP-CEP/Course/2023/COE/1290*