PREM KUMAR

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Patna, India

Linkedin **GitHub** **Portfolio**

EDUCATION

Indian Institute of Technology, Madras
Bachelor's Degree in Data Science & Applications
(Jan, 2021 – Jan, 2025)

R.K.D College, Kankarbagh, Patna
I.Sc. (2017-2019)
82.8%

G.B.P.S Cantt Area, Gaya
Xth (2017)
9.6 CGPA

EXPERIENCE

Data Analyst Intern | Medical Network Pvt.Ltd.
(Jan, 24 - June, 24)

- As a **Data Analyst Intern**, I **analyze leads data** for the franchise model and other critical data related to **marketing, inventory, and business operations.** My role involves **extracting insights**, optimizing processes, and **supporting data-driven decision-making** to enhance overall performance.

Co-founder & CEO | TechoTians
(Aug, 23 - Dec, 23)

- As a Co-founder & CEO at **TechoTian**, I Oversee a digital marketing company specializing in marketing, lead generation, **market research, and IT solutions.** Responsible for strategic planning, **business development,** and ensuring client satisfaction for company growth and success.

Graphic Designer & Content Researcher | LearnEverythingAI
(Jan, 23 - July, 23)

- Create **visually engaging content** and conduct in-depth research. **Design graphics, analyze trends,** and craft compelling content to enhance user experience and drive engagement.

SKILLS

Python   Javascript   VueJs   SQL   Java

Data Structure & Algorithms   Flask   OOPs

Machine Learning   NumPy   Pandas

Matplotlib   scikit-learn   seaborn

Business Data Management

ACHIEVEMENTS

- 100% Scholorship for my Bachelor's Degree at IIT Madras

- Got Highest percentage in PCM (Theory) Paper in college - 86.6% (XIIth Board)

HOBBIES

- Reading Books, Playing Chess & Cricket

PROJECTS

Machine Learning Project: Food Recipe Rating Prediction

Developed a predictive model to forecast **food recipe ratings using** a dataset of recipe names, reviews, and features.

Key Contributions:
- Conducted **Exploratory Data Analysis** (EDA).
- Preprocessed data: imputed missing values, scaled numerical features, encoded categorical data.
- Built and compared models like **Logistic Regression**, **Random Forest**, **KNN**, **Naive Bayes** & **SVC**.
- Achieved over **77% accuracy |** (Logistic Regression)

Skills: Data analysis and visualization | Feature engineering | Model selection and tuning | Python (scikit-learn, pandas, numpy)

Machine Learning Project: Diabeteasy

Developed a machine learning application to assist individuals in managing diabetes.

Key Contributions:
- Implemented key features such as **medication tracking**, **local doctor suggestions**, and **personalized dietary advice.**
- Integrated **Google Maps API** for finding **nearby healthcare professionals**.
- Used **HTML, CSS, Bootstrap, JavaScript, and Flask** for front-end and back-end development.
- Employed **logistic regression to predict diabetes** outcomes based on user input.
- Utilized **Gemini Pro's image models for nutritional suggestions** based on uploaded food images.
- Implemented **user authentication and session** management **with Flask-Login.**

Capstone Project: Optimization of Operations at Shanvi General & Dairy Products Shop

Methodology:
- Collected data on stock levels, sales, purchasing patterns, and customer feedback.
- Used statistical tools for trend analysis.
- Employed WBS, Gantt Chart, and data visualization.

Outcomes:
- Reduced stockouts by 30% with a predictive model.
- Cut customer service response times by 20%.
- Delivered comprehensive report with recommendations.

Library Management System

Key Features:
- User Functionality: Users can request, read, and return e-books.
- Librarian Functionality: Librarians can add sections/e-books and manage user access.
- Sections: Managed with ID, name, date created, and description.
- Books: Managed with ID, name, content, author(s), date issued, and return date.
- Automated Recommendations: System displays recently added sections/books or based on ratings.

Tech Stack:

Backend: Flask for API **| Frontend:** VueJS for UI **| Templating:** Jinja2 **| Styling:** CSS, Bootstrap **| Database:** SQLite **| Caching and Batch Jobs:** Redis and Celery

ROLES & RESPOSIBILITIES

- I organised & **Lead a 36-Hours Grand Hackathon at IIT Madras** Campus, demonstrating strong leadership & Event management skills while fostering innovation and collaboration among participants

- At **Nallamala House, IIT Madras**, I serve as the WebOps **Team Lead** and **Designer**. In this role, I lead a team responsible for website operations, ensuring seamless functionality and user experience. Additionally, I contribute to designing and enhancing web interfaces to align with organizational goals and user needs.