

# PRATIK SINGH RATHOUR

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## CAREER OBJECTIVE

Software development enthusiast with strong technical skills and a passion for building efficient solutions. Seeking to apply my expertise in a dynamic tech environment while continuously learning and contributing to innovative projects. Dedicated to making a meaningful impact and advancing in the field.

## SKILLS HIGHLIGHTS

### TECHNICAL SKILLS

**Programming Languages:** JavaScript, Java, python  
**Frameworks & Technologies:** React.js, spring boot  
**ML & AI:** Scikit-learn, TensorFlow, NumPy, Pandas, kearas  
**Databases:** MySQL, Oracle SQL, MongoDB  
**Version Control:** Git, GitHub  
**Data Analysis & Visualization:** Matplotlib  
**Development Tools:** Jupyter Notebook, Pycharm

### SOFT SKILLS

- Communication
- Researching
- Team Collaboration
- Problem Solving
- Effective Communication
- Time Management

## PROJECTS

1) Personal Expense Tracking System

[Link](#)

### A Cross-Platform Financial Management Application

- **Description:** A financial tracking application that helps users manage income, expenses, credits, and debts efficiently. The system provides a dashboard for real-time financial insights, tracking pending and completed debts, and summarizing data with interactive charts.
  - **Framework:** .NET MAUI Blazor Hybrid
  - **Language:** SQLite, C#, Blazor
- Key Features:**
- **Income & Expense Tracking** – Log financial transactions with details.
  - **Credit & Debt Management** – Track pending and completed debts.
  - **Dashboard & Insights** – Summarized data with interactive charts and reports.
  - **Cross-Platform Compatibility** – Runs seamlessly on macOS and Windows

## 2) Diabetes Prediction Using Machine learning

[Link](#)

Technologies: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Logistic Regression, SVM, Decision Trees

- Built a predictive model for diabetes detection using patient data.
- Applied Logistic Regression, SVM, and Decision Tree, achieving 75.97% accuracy.
- Performed data preprocessing, feature scaling, and model evaluation using AUC-ROC.
- Visualized results to compare model performance.

## 3) E-Commerce website for electrical and electronics products

[Link](#)

- **Description:** Built a user-friendly e-commerce site for electronics with a responsive design, inspired by Sony.
- **Tech Stack:** HTML, CSS, JavaScript (Frontend); Java, JSP, Servlets (Backend); MySQL (Database); Eclipse (Development Environment).
- **Authentication:** Custom login and registration system with role-based redirection for users and admins.
- **key Pages:** Home Page, Product Page, Product Description Page, Admin Dashboard, About Us Page

## 4) Reservation Management System

[Link](#)

Built using: Java, OOP principles, Hibernate, Spring boot

- **Description:** Developed a reservation system featuring a user portal for managing resort and railway reservations. Implemented real-time input features for checking and modifying reservations, leveraging Hibernate for ORM and Spring Boot for streamlined development and deployment.
- Key Features:
  - a) User portal for creating and managing reservations
  - b) spring Boot for creating a robust, scalable backend with simplified configuration and development.

## 5) ToDo Application

[Link](#)

- **Description:** Developed a task management application to help users create, manage, and track their daily tasks effectively.
- **State Management:** Utilized React's Context API (useContext) for efficient state management across the application.
- **Tech Stack:** javascript, React.js (Frontend); Vite (Development Environment).

## Parking System

**Built using:** Arduino UNO, Servo motor, Ultrasonic sensor, LED display, other motors, wiring .

**Description:** Developed an IoT-based smart parking system that detects and displays available parking spots. This project provided practical experience in IoT, networking, and embedded systems.

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## EDUCATION

### BSc (Hons) Computing

Islington College, London Metropolitan University kamalpokhari,  
Kathmandu

2022-ONGOING

### SLC

Himal Academy  
Tulsipur-6, Dang

2022

### SEE

Himal Academy  
Tulsipur-6, Dang

2019

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## CERTIFICATION

AWS Academy Graduate - AWS Academy Cloud Foundations

Issued: 11/28/2023

[Credly Link](#)