

# Prakash Kumar

Software Engineering

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## Technical Skills

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**Languages:** C++, Python, JavaScript, HTML/CSS, SQL (PostgreSQL, Oracle SQL)

**Developer Tools:** VS Code, PyCharm, Jupyter Notebook, Google Colab, GitHub, Docker

**Frameworks and Libraries:** TensorFlow, Keras, Scikit-Learn, Pandas, NumPy, Matplotlib, Flask, Django, React.js

**Operating Systems:** Linux, Ubuntu, Windows

**Networking:** TCP/IP, DNS, DHCP, VPN, Firewall Configuration, Load Balancing

## Projects

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### Data Science, Machine Learning

*Movie Metadata Analysis and Recommendation System*

2023

- Analyzed and derived meaningful insights from movie metadata to develop a recommendation system.
- Utilized Pandas and NumPy for data manipulation, converting nested data structures into structured formats.
- Performed exploratory data analysis to uncover trends and relationships in movie genres, keywords, cast, and crew.
- Skills Used: Python, Pandas, NumPy, Data Visualization Libraries, Kaggle Datasets

### ASP.NET, MVC, CRUD Operations

*Book Store Website*

2023

- Developed a book store website using ASP.NET MVC framework, implementing full CRUD functionality.
- Leveraged Model-View-Controller (MVC) architecture to ensure a clear separation of concerns.
- Implemented robust data management capabilities with Entity Framework Core.
- Skills Used: ASP.NET, MVC, Entity Framework Core, CRUD Operations

### iOS Development, Swift 4.2, Swift UI

*Movie Ticket Booking Application*

2023

- Developed a comprehensive iOS application for movie ticket booking using Swift 4.2 and Swift UI.
- Provided users with a seamless and user-friendly experience for browsing and booking movie tickets.
- Skills Used: Swift 4.2, Swift UI, MVC

### Deep Learning, LSTM, Keras

*Document Verification Using LSTM*

2023

- Preprocessed textual data and implemented an LSTM-based model for document verification.
- Skills Used: LSTM, Data Preprocessing, Model Building, Model Evaluation

### Machine Learning, Autoencoders, Scikit-Learn

*Credit Card Fraud Detection*

2023

- Leveraged autoencoders and Random Forest Classifiers to detect fraudulent activities in credit card transactions.
- Skills Used: Autoencoder, Random Forest, F1-Score, Precision, Recall, AUC-ROC

## Achievements

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**HackerRank:** 3 Star Coder in Python and C++

**HackerRank:** 5 Star Coder in SQL and C++

**LeetCode:** 150+ Problems Solved in DSA

**Competitive Coding:** Solved and participated in weekly challenges on Code Studio, enhancing problem-solving and algorithmic skills.