

# Pranav Kumar

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Passionate Software Engineer with strong foundations in frameworks, programming languages. Eager to contribute technical expertise and analytical skills for delivering impactful technology solutions.

## EDUCATION

<b>PES University</b> , <i>M.C.A</i>   Bangalore, India	GPA: <b>7.79 / 10.0</b>	AUG 2024
<b>IIMT College of Management</b> , <i>B.C.A</i>   Greater Noida, India	GPA: <b>7.00 / 10.0</b>	SEP 2022
<b>D.A.V Public School</b> , <i>Higher School</i>   Bokaro, India	GPA: <b>8.70 / 10.0</b>	MAY 2019
<b>St.Xavier's School</b> , <i>Secondary School</i>   Bihar, India	GPA: <b>8.20 / 10.0</b>	MAY 2017

## SKILLS

Development	HTML, CSS, Bootstrap, Flask, Angular, .Net, React, Node, Next
Database and Cloud	SQL , Cloud-Services(AWS)
Languages	Python, C, Java
ML-Libraries and Framework	Numpy, Pandas, Scikit-learn, Seaborn, Random Forest, KNN, Decision Tree, Matplotlib
Others	Machine learning, Agile Methodology, Git, Prompt Engineering

## RESEARCH AND PUBLICATIONS

Title	An Optimized Approach of Player Selection in Cricket Using Performance Analytics
Conference	International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA) 2024
Status	Accepted by Springer, Scopus-indexed journal publication

## PROJECTS

**Beyond The Boundary** | Machine learning: Python, Flask, HTML, CSS, AWS Nov 2023 - April 2024

- **Data Collection and Preprocessing:** Comprehensive historical cricket match data, including player performance statistics such as boundaries scored, centuries, half-centuries, and average strike rate, is collected and preprocessed to ensure accuracy and relevance.
- **Machine Learning Model:** Developed and trained a sophisticated machine learning model using preprocessed data. Leveraged advanced algorithms to identify patterns in historical player performance data, enabling the model to make precise predictions and recommendations for player substitutions during matches.
- **Real-time Recommendations:** Implemented a user-friendly interface that enables team coaches or managers to input current player performance details and opposition team information during a cricket match.
- **User-friendly Interface:** Designed an intuitive and visually appealing interface that provides easy access to player profiles, match statistics, and recommended substitutes.
- **Deployment using AWS EC2 instance.**

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- **Full-Stack Architecture:** Built a responsive React/Vite SPA styled with Tailwind-CSS, featuring dynamic product browsing (search, filter, sort) and pagination, backed by an Express API and MySQL schema.
- **Data Modeling & Workflows:** Designed RESTful endpoints and DB tables for products, categories/subcategories, serial numbers, contacts, and one-time warranty registrations, enforcing server-side single-use validation.,
- **Media Management:** Integrated AWS-S3 (Multer-S3 + AWS SDK v3) for multi-image uploads, plus Sharp-driven image compression to optimize delivery.,
- **Admin & Notifications:** Developed a JWT-secured admin dashboard for CRUD and real-time warranty handling; implemented Nodemailer SMTP emails for automated, IST-timestamped warranty confirmations; managed configuration via dotenv following 12-factor principles.

## CERTIFICATES

Distinction Award	MCA: First Semester
PES University, Bangalore 2023	
Certificate of Paper Presentation	ERCICA - 2024
BGSCET, Bangalore 16 July 2024	