

Raj Vijay Firke

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EDUCATION

Pimpri Chinchwad College of Engineering (PCCOE)

Bachelor of Technology, Computer Science, CGPA: 8.84/10.0

2020 - 2024

- Mentored a 70+ member team and received Outstanding Community service 2022 by ACM India.

SKILLS

- Coding Languages and OS:** C/C++ | Python | SQL | HTML5 | CSS3 | JavaScript | Linux | Windows
- Tools, Frameworks and Libraries:** Git | GitHub | PowerBI | Tensor Flow | Pandas | NumPy | Sci-kit-learn | NLTK
- Coursework:** Data Structures and Algorithms | Object Oriented Programming | Database Management System (DBMS) | Cloud Computing | Operating System | Software Engineering | Software Testing
- Product Skills and Others:** Machine Learning (ML) | Natural Language Processing | Front-End Development | Data Analytics | Data Visualization | Agile methodologies | Software Development Life Cycle (SDLC)

EXPERIENCE

BrainChain, Pune, India

Software Developer

November 2023 - April 2023

- Utilized multithreading concepts to optimize code, resulting in a significant **reduction of execution time by 73%**, thereby improving overall system efficiency and performance.
- Led a team of 4 in optimizing the semantic mapping of data to specific categories, leading to a notable 23% enhancement in accuracy and efficiency, thereby facilitating precise data analysis and decision-making processes.

Persistent Systems, Pune, India

Software Trainee,

June 2023 - August 2023

- Completed training in critical software skills, encompassing Database Management Systems (DBMS), Data Structures and Algorithms, Object-Oriented Programming (OOP), Linux Operating System, and Python.

PHN Technology, Pune, India

Machine Learning and Data Science Intern

April 2023 - June 2023

- Boosted predictive accuracy by 9%** through the development and training of machine learning models, focusing on challenges encompassing data cleaning, exploratory data analysis, and model optimization.
- Conducted in-depth exploratory data analysis to turn raw data into practical insights. Applied certain ML techniques to address real-world challenges, resulting in improved data-driven decision-making processes.

PROJECTS

Certificate Generator | *HTML, CSS, Bootstrap, JavaScript, Django, Python*

- Engineered a **web app** as a committee member, resulting in a **90% reduction** in certificate creation time for events.
- Designed a user-friendly interface that allowed users to upload certificate images, enter participant/winner names, and set printing coordinates, leading to a 50% increase in overall efficiency.
- Expedited efficiency in event closure, reducing post-event workload by 25% for streamlined execution.

Ranking Institutes based on their Syllabus | *HTML, CSS, Bootstrap, Python, NLP, MySQL, Flask, LLM*

- Augmented the web application post-Smart India Hackathon that utilizes NLP to map college syllabi to 33 ACM knowledge areas of Computer Engineering, and introduced a scoring system for detailed evaluation.
- Boosted the application's capability to evaluate academic program quality by implementing data-driven features, resulting in a **20% improvement** in the efficiency of the evaluation process.

Fusing Customer Insights for Term Deposit Forecasting | *PowerBI, Weka, Python, Colab*

- Implemented Machine Learning algorithms and achieved high accuracy in **Logistic Model Tree (LMT)** predictive model (**91.37% accuracy**) to identify potential fixed deposit investors based on diverse features.
- Integrated with a Power BI dashboard analyzing 14,000+ Marketing Campaign customers' data, optimizing marketing strategies and fostering data-driven business improvements.

AWARDS AND ACHIEVEMENTS

- Teaching Assistant** at PCCOE, Spearheaded a batch of 60+ first-year students in C/C++ programming principles.
- Published a review paper on "Proposed Model of Hindi Book Review Sentiment Analysis" in IJERT (2022).
- Smart India Hackathon (2022) Finalist:** Developed a web-app and Solution for a 36-hour offline hackathon, achieving a position within the top 5 teams in India for an AICTE problem statement.
- Served in core team of PCCOE ACM student Chapter for over 2 years, handling multifarious roles, including Secretary, Web-Master, and Event Management Head.

CERTIFICATIONS

- Completed the Google Data Analytics online professional course on Coursera. ([link](#))
- Certificate for Completion of Advanced C and C++, Training from Spoken Tutorial Project at IIT Bombay.