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

* Fostered and mentored a 70+ member team and runner up for Best ACM (India) Student Chapter.

# SKILLS

* **Coding Languages:** Python | C | C++ | SQL | R language | HTML5 | CSS3 | JavaScript
* **OS and Databases:** SQL | MySQL | No-SQL | Linux | Windows
* **Tools, Frameworks and Libraries:** Git | GitHub | Microsoft PowerBI | Visual Studio | Amazon Web Services (AWS) | TensorFlow | Pandas | NumPy | Sci-kit-learn | NLTK | Spacy
* **Coursework:** Data Structures and Algorithms | Object Oriented Programming | Database Management System (DBMS) | Cloud Computing | Operating System | Software Engineering | Software Testing | Linear algebra
* **Product Skills and Others:** Machine Learning (ML) | Natural Language Processing (NLP) | AWS | Large Language Models (LLMs) | Data Analytics | Software Development Life Cycle (SDLC) | Huggingface Transformer | Data-Driven Business Intelligence | Data Visualization | Statistics Analysis | Web Scraping

# EXPERIENCE

**Persistent Systems,** Pune, India

Software Trainee, June 2023 -August 2023

* Completed extensive training in critical software skills, encompassing Database Management Systems (DBMS), Data Structures and Algorithms, Object-Oriented Programming (OOP), Linux Operating System, and Python.
* Applied acquired skills in software development to complete 2 real-world projects.

**PHN Technology,** Pune, India

Machine Learning and Data Science Intern, April 2023 -June 2023

* Enhanced 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 comprehensive exploratory data analysis, transforming raw data into actionable insights, and applied machine learning and data science techniques to address real-world challenges, resulting in an improved in data-driven decision-making processes.

# PROJECTS

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

* Developed 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.
* Enhanced 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*

* Enhanced the web application post-Smart India Hackathon that utilizes utilizing NLP to map college syllabi to 33 ACM knowledge areas of Computer Engineering, and introduced a scoring system for detailed evaluation.
* Enhanced 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 various 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 various features,
* Coupled with a Power BI dashboard analyzing 14,000+ Marketing Campaign customers' data, optimizing marketing strategies and fostering data-driven business improvements.

# AWARDS AND ACHIEVEMENTS

* Published a paper on **“**[Proposed Model of Hindi Book Review Sentiment Analysis](https://www.ijert.org/proposed-model-of-hindi-book-review-sentiment-analysis)**”** in IJERT (2022).
* **Smart India Hackathon (2022)** **Finalist**: Participated and qualified for a 36-hour offline hackathon, achieving a position within the top 5 teams in India for an AICTE problem statement.
* Been as a core team member of PCCOE ACM Student Chapter for 2 years, fulfilling 3+ distinct roles, namely Secretary, Web-Master, and Event Management Head.

# CERTIFICATIONS

* Successfully completed the Google Data Analytics online professional course on Coursera. ([link](https://www.credly.com/badges/f0a8e38a-2058-4324-bd68-45f2d5c4f28d/print))
* AWS Academy Cloud Foundations. ([link](https://www.credly.com/badges/2b3dde91-424b-4869-93e3-060979d52d9d/print))
* AWS Academy Graduate - AWS Academy Machine Learning Foundations. ([link](https://www.credly.com/badges/f943e41d-3a96-491e-b0ba-83bfcbbeb170/print))
* Certificate for Completion of Advanced C and C++, Training Spoken Tutorial Project at IIT Bombay.