ABISHEK PRABAKARAN RAMKUMAR

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LinkedIn | GitHub | Portfolio

- A fresher with exposure to full stack development and AI/ML (academic projects)
- Committed to continuous learning of new technoligies and resolve complex technical challenges through collaboration and team work.

Education

May 2025 – Present
Chennai,India

Bachelor of Science - Data Science & Applications, *IIT - Madras*
Foundation level - 5 courses completed (Ongoing)

2019 – 2023
Kotri Kalan,Sehore, India

Bachelor Of Technology-Computer Science & Engineering,
Vellore Institute Of Technology - VIT BHOPAL University
CGPA 7.81/10

2017 – 2018
Chennai, India

12 std, *Prince Matriculation Higher Secondary School*
Percentile: 72.66%

2015 – 2016
Chennai, India

10 std, *Prince Matriculation Higher Secondary School*
Percentile: 89.80%

Skills

Java • Python • SQL • C++ • AWS • Prompt Engineering • AI & ML • Linux • Java Script • HTML • CSS • VS Code • DevOps

Projects

Oct 2022 – Apr 2023

Smart Student Management System
This project aims to ditigize the student's data and it provides various modules like below to aceive the objectives

- user management,
- student profile management,
- teacher management,
- cashier (payments), etc.,

The user management allows manging the users and utilizes RBAC method to provide access control for different roles. The front end is acheived using HTML, CSS and Java Script. The backend uses JS, Django Forms and stores data as No SQL DB files. Refer to the link (in the title) for more details.
My contrbution is to develop the frontend pages for this project.

Aug 2021 – May 2022

Smart water management system
Smart Water Management System is essentially a system designed to use latest techologies and sensors to ease the management of water in residences and help conserve water. The project tries to address water management holistically like rain water harvesting, consumption, leakage detection, automated water pumping to tanks, etc.,. The project is published in journal and refer to journal section for the link.
Apart from diffent module integration tasks, my contribution primarily includes development of leakage detection using IOT technology. Using Adruino IDT, the sofware was developed and it reads the data from water flow sensors and have the logic to detect leakge if any.

Feb 2021 – May 2021

Facial Expression Recognition
To recognize a face, it is first important to detect and locate it in an image or video. We have used Viola-Jones algorithm to detect the face. After extracting the face, we move on to the next step. A deep learning model based on CNN is used to detect face. However, the original images collected from online need to be preprocessed, including face detection, alignment, rotation, and resizing, according to the different elements in the original images. To achieve a better model, we need to train with images depicting different emotions, using more epochs and a larger dataset. This process requires high computational power, which cannot be handled by a personal computer.

Jul 2020 – Sep 2020

Corona Symptom Checker , *ChatBot Using Python*
This project is based on Tkinter using Python for the GUI and an AI bot using a JSON file for AI. We proposed a system that functions as an application, providing users with information about their present health. This system determines what the user actually wants by retrieving the semantic meaning of the query. It then passes this semantic text as input to the pattern-matching algorithm. The matching algorithm utilizes pre-fed knowledge to generate a response.

HackerRank Certificates

- Python Basics – HackerRank
- Problem Solving Intermediate – HackerRank
- SQL Intermediate – HackerRank
- Problem Solving Basics – HackerRank
- SQL Basics – HackerRank

Certification Courses

May 2025 – Nov 2025 **PG certificate Program in cloud computing & Devops** , *IIT Roorkee*
Score: 36/41

Jan 2025 – Feb 2025 **Prompt Engineering with Chat GPT** , *Linkedin Learning*

Dec 2024 – Jan 2025 **Programming Foundations:Object Oriented Design** , *LinkedIn Learning*

Dec 2024 – Jan 2025 **Programming Foundations: Beyond Fundamentals** , *LinkedIn Learning*

Dec 2024 – Jan 2025 **Programming Foundations: Fundamentals** , *LinkedIn Learning*

May 2024 **Ulimate AWS cloud Practitioner CLF-C02** , *Udemy*

Oct 2023 – Dec 2023 **NDG linux unhatched Course** , *Cisco Networking Academy*

Sep 2022 – Oct 2022 **AWS Cloud Practitioner Essentials** , *AWS*

Nov 2019 – Feb 2020 **AI Foundations** , *NASSCOM Futureskills Prime*

Publications

29 Mar 2023

Sophisticated Water Quality and Management System,
Book Publisher International
- Book chapter published in "Research and Developments in Engineering Research Vol. 1" by Book Publisher International. ISBN: 978-81-19102-71-6 (Print), 978-81-19102-73-0 (eBook)

https://doi.org/10.35940/ijrte.C7270.0911322

30 Oct 2022

Smart water management System,
Blue Eyes Intelligence Engineering and Sciences Publication (BEIESP)
- Published in the International Journal of Recent Technology and Engineering (IJRTE), Vol. 11, Issue 3, ISSN: 2277-3878.

https://stm.bookpi.org/RADER-V1/article/view/10105

Languages

Tamil **English**

Score Card

AWS CCP, *Amazon Web Services -- Score (650/1000)*