PAVITHRA RAJAN

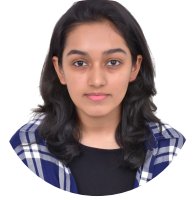**Upcoming Member Technical Engineer at D.E. Shaw & Co.**

@ pavithra.rajan01@gmail.com   ✆ 6282890432   ● Calicut, Kerala   in pavithra-rajan-b2181a190

○ Pavithra-Rajan

EXPERIENCE

System Engineering Intern
D.E. Shaw & Co.

📅 May 2022-July 2022   ● Hyderabad, India

- Designed and developed a Certificate Manager for maintaining the lifecycle of X.509 certificates of internal facing websites and services of the firm
- Utilised Vault to issue certificates and developed the server using FastAPI
- Tested renewal of expired certificates as well as issuance of certificates for new services

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Technical Content Developer
Professional Cipher

📅 Aug 2020-Sept 2020   ● Remote

- Created tutorial videos on Data Science and Machine Learning projects for a YouTube channel.
- Developed Classification models for Wine quality categories, Income Category prediction, Credit Card fraud detection and Basic Image Classification with Keras and Tensorflow
- Strived to achieve impressive accuracy in all of these models.

PROJECTS

JMR Infotech NITCkathon- 1st runner up

📅 March 2023

- Developed a consumer buying behaviour **ML model** that can predict the amount that will be spent by a customer.
- Designed and implemented the backend architecture in **Flask** to effectively leverage deployed ML model, resulting in the seamless generation of comprehensive and visually appealing graphs.

Expense Tracker App

📅 October 2022

- Developed the frontend of a **finance tracking app** that allows users to monitor their monthly expenses
- Designed and implemented interactive charts to enhance user experience and make data analysis easier

swimiNIT

📅 March 2022

- Developed a **flutter** mobile application for the efficient management of NITC's swimming pool.
- Worked with **Firebase Authentication** to sign-in different types of users
- Collaborated to design and implement the various views
- Followed an agile project management plan and adhered to the various stages of Software Development Lifecycle

Library Management System

📅 December 2021

EDUCATION

National Institute of Technology, Calicut
B.Tech in Computer Science and Engineering

📅 July 2019 - Present   ● Kerala, India

- CGPA: 8.84/10.00

GEMS Our Own English High School

📅 Apr 2005–May 2019   ● Dubai, UAE

- **Second School Topper** with an aggregate percentage of **96%** in **Class 12 (AISSCE) C.B.S.E board examination**. The subjects taken were: Computer Science (C++), Physics, Chemistry, Mathematics and English
- Awarded the **0.1% merit certificate** by CBSE for **English**
- Received the **Middle East Top Achievers Scholarship Award** for outstanding academic achievement.
- Secured **CGPA 10.0/10.0** in **Class 10 CBSE (AISSE)**. The subjects taken were: English, Mathematics, Social Science, Science, Hindi
- **High Distinction** in **International Benchmark Test**, 2015 in Mathematics
- **Student Innovator** for **She Innovates by UN Women** in partnership with SAP Next Gen Young Thinkers Program, 2017

RESPONSIBILITIES

National Institute of Technology, Calicut

📅 May 2022-May 2023

- Secretary of **Computer Science Engineering Association**

📅 April 2022-May 2023

- Branch Councillor of **Student Affairs Council**

📅 August 2021-October 2022

- Secretary of **The Literary and Debating Club**
- Member of **Cultural Council**

📅 September 2020-May 2022

- Junior Executive of **Computer Science Engineering Association**

📅 October 2020-August 2021

- Junior Executive of **The Literary and Debating Club**
- Member of **Tathva Content Creation Team (TCCT).**

- Designed and implemented a Library Management System as a part of DBMS course project using **ReactJS** and **Flask**.

Code.Init() Hackathon- 2nd position

📅 September 2021

- Designed and developed a **ReactJS** application that converts the institute schedule to a Personalised Timetable based on one's slots.

Code For Good Hackathon- J.P. Morgan Chase

📅 July 2021

- Created and deployed a **Random Forest Classifier** to recommend events for volunteers of an NGO in order to increase the engagement of the volunteers.

Beauty Predictor with Machine Learning

📅 July 2020

- Designed a Deep Learning model with **CNN** and **transfer learning** for beauty prediction using the Chicago face data-set

Anand Memorial Project Competition, Finalist

📅 October 2019

- Shortlisted for AMPC as a part of Tathva, the annual techno-management fest of National Institute of Technology, Calicut
- Developed the prototype of a Food Management App for the hostel in my college to ease the paperwork involved

TECHNICAL SKILLS

- **Programming Languages** – Python, C/C++, Dart
- **Operating System** - Windows, Mac OS, Linux
- **Video Editing**- iMovie, VideoPad, Da Vinci Resolve
- **Version Control Systems**- Git
- **Web Development**- HTML, CSS, JavaScript, ReactJS, FastAPI
- **Database Management Systems**: MySQL, PostgreSQL

📅 September 2019-Present

- Class Representative

📅 September 2019-August 2020

- **First-Year B.Tech Councillor** (3 students representing 1202 students)

GEMS Our Own English High School

📅 April 2018 - April 2019

- **House Captain** of Mars house and lifted the **Overall Championship** of that year.

📅 2015 - 2018

- Member of **Prefectural Body**

COURSES

Coursera

- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning
- Convolutional Neural Network
- Python Data Structures
- Prediction with Scikit-Learn
- Exploratory Data Analysis with Seaborn
- Support Vector Machines with Scikit learn

HackerRank Skill Certification

- Python
- Problem Solving