AROCKIA BILGATES

Software Developer
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EDUCATION

ST. JOSEPH'S COLLEGE OF ENGINEERING AND TECHNOLOGY
BE IN COMPUTER SCIENCE
Apr 2021 | CGPA : 7.21/10.0

LINKS

LinkedIn:// **BilGPro**
Github:// **GatesDev**
LeetCode:// **BilCode**
Website://**Portfolio**

SKILLS

PROGRAMMING

Advanced
Python • MySQL• Java
OpenCv • Machine Learning

Intermediate:
C •C++• HTML• CSS • Javascript
ReactJS • NodeJS •APIs• Git

Familiar:
MongoDB • Docker • Power BI

COURSEWORK

UNDERGRADUATE

Data Structures and Algorithms
Object Oriented Programming
System Design
Machine Learning

INTERESTS

TECHNICAL

Full stack • Software Development
Artificial Intelligence

NON-TECHNICAL

Photoshop • Editing
Content Creation • Learning

LANGUAGES

Tamil • English

EXPERIENCE

NULLCLASS | DATA ANALYTICS INTERN

Oct 2024 - Sep 2024 | Remote

- Successfully created a **real-time Twitter dashboard** using **Power BI**, visualizing key metrics and trends for **data-driven decision-making**.
- Developed a project titled **Real-time Google Play Store Data Analytics** using **Python**, gaining insights into app performance, user feedback, and **data manipulation techniques**.

PRAG ROBOTICS | ASSOCIATE ROBOTIC ENGINEER

Feb 2024 - Oct 2024 | Thanjavur

- Trained and mentored **200+ students** in **Python**, **R**, **machine learning**, **robotics**, **AI**, and **OpenCV**, helping them gain practical skills for **real-world applications**.
- Led and supported **student project development**, resulting in successful project completions by providing guidance on **debugging**, **project structure**, and **best practices**.

CADD CENTER | SOFTWARE TRAINER

Feb 2023 – Sep 2023 | Thanjavur

- Trained over **100 students** in programming languages such as **C**, **C++**, **Java**, **Python**, and **web development**, helping them build both foundational and advanced skills.
- Delivered **hands-on guidance and support**, ensuring students successfully completed assignments and projects with a **high success rate**.

PROJECTS

BUS BOOKING RESERVATION SYSTEM (JAVA, MYSQL)

- Developed a bus booking system using **Java** with **OOP** principles and **DSA** techniques for efficient seat allocation and booking management.
- Implemented **MySQL** database integration to handle user data and schedules, improving system efficiency by optimizing queries.

E-COMMERCE WEBSITE (MERN STACK)

- Built a full-stack e-commerce platform using the **MERN stack**, featuring product listings, user authentication, and cart functionality.
- Optimized API endpoints and database indexing for scalability and performance across multiple users.

IMAGE RECOGNITION SYSTEM (PYTHON, SVM, PCA)

- Built an image recognition system using **Support Vector Machine (SVM)** for classification to predict Tamil actors' images with high accuracy.
- Applied **Principal Component Analysis (PCA)** for dimensionality reduction, enhancing the efficiency of image feature extraction and model performance.
- Leveraged **Python** and machine learning libraries to optimize the system for improved computational speed and accuracy in image processing tasks.