S BALAKRISHNAN

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Education

Ahalia School Of Engineering and Technology, *Bachelor of Technology*   2021 – 2025
Computer Science Engineering   Palakkad, India
CGPA:7.55

Amrita Vidyalayam, *XII-Higher Secondary Education*   2020 – 2021
Computer Science Student   Palakkad, India
Aggregate-80%

Professional Experience

Zidio Development, *Web Development Internship*
- Developed dynamic and responsive web applications using React.js, Node.js, and MongoDB.
- Designed and implemented RESTful APIs for seamless frontend-backend communication.
- Utilized Redux for state management and Express.js for backend development.
- Optimized website performance, debugged issues, and improved user experience.
- Collaborated with a team using Git/GitHub and followed Agile development methodologies.

Ediglobe, *Android App Development*
- Developed and optimized Android applications using Kotlin and MVVM architecture.
- Integrated Retrofit for API calls and Room Database for local storage.
- Implemented RecyclerView, Data Binding, and Jetpack components for an efficient UI/UX.
- Worked on bug fixing, performance improvements, and code optimization.
- Collaborated with a team to follow Agile methodologies and version control using Git/GitHub.

Skills

Languages	Frameworks & Libraries	Tools
- Python	- Node.js	- Excel
- Java	- React.js	- Word
- C	- Express.js	- Android Studio
- HTML	- Scikit-Learn	- Git
- CSS	- Keras	- VSCode
- JavaScript	- Numpy	- Google Colab
- SQL	- Pandas	
- MongoDB	- Flask	
- Kotlin		

Projects

Network Intrusion Detection Using Machine Learning, (*Scikit-learn,Numpy,Pandas,Matplotlib,Keras*)

- Developed an intelligent Network Intrusion Detection System (NIDS) using deep learning techniques.
- Employed statistical analysis and an autoencoder-based architecture for anomaly detection.
- Utilized the NSL-KDD dataset for training and evaluation.
- Achieved 84.21% accuracy in binary classification and 87% accuracy in multi-class classification.
- Enhanced feature extraction and classification using advanced machine learning algorithms.
- Among all models evaluated, Multilayer Perceptron (MLP) demonstrated the best performance.

Job Listing Portal Using MERN Stack, (*MongoDB,React.js,Node.js,Express.js*)

- Developed a dynamic web application using the MERN stack for job seekers and employers.
- Enabled job seekers to browse, search, and apply for jobs, and employers to post and manage listings.

- Implemented secure user authentication with JWT and role-based access control.
- Designed a responsive and intuitive UI using React.js and Material-UI.
- Built RESTful APIs to support seamless CRUD operations.
- Optimized performance to ensure a smooth and efficient user experience for effective job matching and management.

Student Management System Using MERN Stack, *(MongoDB,React.js,Node.js,Express.js)*

- Designed and developed a robust academic result management web application using the MERN stack.
- Implemented CRUD operations for administrators to add, update, and delete student records and results.
- Enabled students to securely log in and view their grades.
- Integrated JWT-based authentication and role-based access control for data security.
- Built a responsive and intuitive UI with React.js and Material-UI for cross-device accessibility.
- Optimized API performance for seamless data retrieval and updates, streamlining result management processes.

News Application Using Retrofit, *(RetroFit2,RecyclerView,Kotlin)*

- Developed a dynamic Android application using Kotlin to fetch and display real-time news from NewsAPI.
- Integrated Retrofit for efficient network calls and data fetching.
- Used RecyclerView for smooth and efficient rendering of news articles.
- Designed a modern, responsive UI for an engaging user experience.
- Implemented data binding to ensure a robust and maintainable codebase.
- Added advanced features such as search functionality and categorized news filtering to enhance usability.

Certificates

- Introduction to Web Development Using HTML,CSS,JavaScript by IBM
- Git and GitHub by IBM
- Python for Data Science,AI & Development by IBM