Abhinav Inamdar

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https://abhinavpinamdar.github.io/ Software Engineering student . Seeking Software Engineering Internships for Summer 2025

EDUCATION

Bachelor of Science in Computer Science **GPA: 3.4/4**
BMS College of Engineering, Bengaluru, KA
Relevant courses: Data Structures and Algorithms, OS

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, C/C++, SQL
Frameworks: Flask, Vue.js, React.js
Cloud/Tools: Git, GitHub, Docker, Kubernetes, AWS (ECS, S3, RDS, Lambda, CloudWatch)
Machine Learning: NumPy, Pandas, TensorFlow
Databases/Others: MongoDB, MySQL

CERTIFICATIONS

- Python for Data Science(IBM)
- Machine Learning with Python(IBM)

PROJECTS

Chess Engine | Python, OpenCV, C, Microcontrollers

- **Algorithm Development**: Implemented advanced chess algorithms such as **Minimax with Alpha-Beta Pruning** to optimize the engine's decision-making process.
- **Lead Developer**: Spearheaded the design and implementation of the chess engine, ensuring its ability to make intelligent decisions based on standard chess algorithms and strategies.

Blood Donation App | Dart, Firebase, Node.js

- **Mobile App Development**: Led the design and development of the blood donation app using flutter, ensuring cross-platform compatibility for both iOS and Android.
- **Server-Side Development**: Built the back-end using Node.js and Express.js, handling API development, user authentication, and **real-time data processing**.

Tax Filling Website | HTML, CSS, Node.js, Express.js, MongoDB

- **Back-End Development**: Built a scalable back-end using Node.js and Express.js, managing server-side logic, authentication, and API integrations for tax data processing.
- **Front-End Development:** Designed and implemented the user interface using React.js, focusing on creating an intuitive, responsive, and accessible design for users of all technical backgrounds.
- **Database Management**: Managed data storage and retrieval using MongoDB, ensuring the secure handling of sensitive tax information with encryption and access control measures.

Fake Review Detection System | Python, TensorFlow, Docker, AWS ECS

- **Machine Learning:** Developed an advanced BI-LSTM-based deep learning model for identifying fake reviews by analyzing textual patterns, metadata, and reviewer behavior. Trained the model on a labeled dataset to achieve an **accuracy of 97%.**
- **Natural Language Processing:** Preprocessed reviews using tokenization, padding, and embedding techniques (Word2Vec, GloVe) to extract meaningful textual features for model training.
- **Containerization**: Dockerized the entire application, including the ML model and API, ensuring consistent and portable deployments across development, staging, and production environments.
- **Cloud Deployment:** Deployed the Dockerized application on **AWS ECS** (Elastic Container Service) using Fargate, achieving high availability and scalability without managing servers directly.
- **API Development:** Built a **REST API** using Flask to expose the model's prediction endpoint, enabling seamless integration with other platforms or frontend systems.