

# Abdul Wasih

Software Engineer | AI/ML Engineer

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## EDUCATION

**Anjuman Institute of Technology and Management**

*Bachelor of Engineering in Computer Science*

Bhatkal, Karnataka

Sep. 2023 – May 2027

## PROJECTS

### Retro Wallet →

React.js | Node.js | MySQL | Docker

- Developed Full-stack expense tracking platform that transforms financial management into an engaging retro-inspired gaming experience.
- Built responsive React frontend with Vite, React Router DOM, and Axios for API integration; designed filtering functionality by category and date with PropTypes validation and Tailwind CSS styling
- Engineered Node.js backend with Express.js middleware; implemented RESTful API with JWT authentication, and CRUD operations for expense management; containerized MySQL 8.0 database using Docker Compose with automated database management scripts and code quality tools (ESLint, Prettier)

### Fake-review Detector Chrome Extension → React.js | tensorflow.js | PyTorch | FastAPI | DistilBERT

- Developed a full-stack Chrome Extension using React, TypeScript, and Manifest v3 to detect fake reviews across popular e-commerce platforms with TensorFlow.js and ONNX Runtime for client-side ML inference, (achieving 85-90%) accuracy
- Fine-tuned DistilBERT transformer model using PyTorch and Hugging Face Transformers on custom fake review dataset, achieving 92-95% classification accuracy
- Architected privacy-first AI solution with TensorFlow.js and ONNX Runtime Web enabling real-time browser-based ML inference, processing sensitive user data locally; built FastAPI + PyTorch backend with fine-tuned DistilBERT ensemble models for enhanced accuracy
- Engineered NLP pipeline with for multi-language text classification across 4+languages; implemented feature extraction analyzing sentiment consistency, linguistic patterns, ; established CI/CD with Vitest, ESLint

### RealEstateX →

React.js | React Native | Node.js | Supabase | Socket.IO | Scikit-learn

- Architected full-stack real estate platform with cross-platform mobile app, admin dashboard, and RESTful backend; implemented 70+ API endpoints with JWT authentication, role-based access control, and Docker containerization, serving properties with real-time synchronization across iOS, Android, and web
- Engineered real-time auction bidding system using Socket.IO with live countdown timers and WebSocket connections; integrated AI/ML-powered price prediction generating 10-year market forecasts with confidence scoring, natural language search processing; built responsive UI with Tailwind CSS
- Developed 10+ business-critical modules including property management, NOC verification, favorites system, geolocation services, inbox/messaging with persistent chat, and augmented reality (AR) property visualization; implemented advanced multi-criteria filtering, and comprehensive input validation ensuring secure data transactions across mobile and web platforms

## TECHNICAL SKILLS

**Languages:** HTML, CSS, JavaScript, Python, Java, SQL

**Frontend/Frameworks:** React.js, Next.js, Vite, Tailwind CSS

**Backend/API:** Node.js, Express.js, FastAPI, Flask

**Authentication & State:** JWT Authentication, Session Management

**ML/AI & Libraries:** PyTorch, DistilBERT, TensorFlow.js, ONNX Runtime, Transformers, pandas, NumPy

**Developer Tools:** Git, Docker, TravisCI, ESLint, Prettier, Terser, Vitest, VS Code

## ACHIEVEMENTS

- Solved over 100+ problems on across Leetcode, HackerRank
- Achieved a competitive **CGPA of 8.1** in Computer Science Engineering, demonstrating strong academic commitment and proficiency in core subjects.
- Lead my team to a top 15 finish at the Sustainathon competition by developing **Greenheart-Ai** (A personal AI-health assistant) in 24 hours.