

NIKKATH ZABEEN SHAIK

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EDUCATION

Indian Institute of Information Technology (IIIT) – Kottayam

2027

B.Tech – Computer Science and Engineering

CGPA – 8.72 / 10.00

Relevant Coursework: Operating Systems, Compiler Design, DBMS, Computer Architecture, Computer Networks

EXPERIENCE

- **Mevia, Bangalore – Full Stack Engineer** (June'25- Present)
 - Built scalable web and mobile apps using **microservices** and **cloud infrastructure**.
 - Developed **AI tools** for influencer matching, campaign analytics, and fraud detection using behavioral data.
 - Integrated **Instagram Graph API** to automate data access and boost performance tracking by 60%.
- **Research Intern – Intelligent Traffic Systems** | IIT Indore | Guide: [Prof. Ayan Mondal](#) (May '25 - July'25)
 - Built a **YOLO + DeepSORT**-based vehicle tracking system that processed 10,000+ frames and tracked 500+ vehicles across real-time traffic videos.
 - Estimated speed and trajectory using pixel displacement; generated labeled datasets for ML modeling.
 - Designed a stacked model with Random Forest, Naive Bayes, and Logistic Regression, achieving **95%+** directional prediction accuracy on vehicle exit path.
- **Research Intern – Cybersecurity and Machine Learning** | NIT Trichy | Guide: [Prof. R Mohan](#) (May'25-June'25)
 - Developed a hybrid insider threat detection system using **Liquid State Machines** and **Half-Space Trees**, capturing both fast and slow behavioral anomalies in real-time systems.
 - Introduced **Cross-Timescale Surprise Alignment (CTSA)** loss to address class imbalance, achieving **97% ROC-AUC** on the **CERT r5.2** dataset and significantly improving F1-score for rare threat events. [paper](#)

PROJECTS

- **WanderWave** | MongoDB, Express.js, React, Node.js, Mapbox, Cloudinary [open](#) (June'24-Present)
 - Developed a full-stack travel booking app using **MERN**, improving booking efficiency for 200+ users with secure auth, CRUD listings, reviews, and **Mapbox**-powered geolocation.
 - Optimized media handling and validation via **Multer**, **Cloudinary**, and **Joi**; implemented session-based auth with Passport.js and deployed on Render with MongoDB Atlas.
- **Flavours And Fables** | MySQL, Express.js, Node.js, bcrypt, EJS [open](#) (Sept'24-Present)
 - Streamlined restaurant operations for 100+ users by building a full-stack system with role-based access, table reservations, order placement, and automated staff assignment using **Express.js**, **MySQL**, and **UUID** logic.
 - Ensured **99.9%** session reliability and secure routing by integrating bcrypt authentication, RESTful APIs, dotenv for configs, method-override for HTTP verbs, and connect-flash for real-time alerts.
- **Mevia-Informative Website** | React, Google Sheets API, Tailwind CSS, TypeScript [open](#) (June' '25-Present)
 - Built a responsive web app with **secure backend** and dynamic UI, integrating **Google Sheets API** for real-time updates—expanded reach from 500 to 1,500 users and boosted registrations by 60% through data-driven design.
- **AI Resume Screener** | Flask, NLP, scikit-learn [open](#) (Jan'25-Feb'25)
 - Built a screening system using **Flask**, **NLTK**, **TF-IDF**, and **scikit-learn** for automated candidate evaluation.
 - Integrated ML models for ranking resumes and delivered real-time insights via a scalable web interface.

RESEARCH PAPERS

- **Fake News Detection in Healthcare** | IIIT Kottayam | Guide: [Prof. Balasubramanian P](#) (Feb'25-Present)
 - Achieved **up to 99.77% accuracy** in detecting COVID-19 misinformation using BERT with Random Forest.
 - Built and evaluated **6 ML & 3 DL models** across 12 pipelines using TF-IDF, BOW, FastText, GloVe, Word2Vec, and BERT.

TECHNICAL SKILLS

- **Tools & Languages:** Python, Java, C++, C, PHP, Socket Programming, REST APIs, Git, GitHub, Linux, VS Code, Postman
- **AI/ML & Data Science:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, TensorFlow, Keras, BERT, GPT, LSTMs, Transformers, Transfer Learning, Fine-tuning LLMs
- **Web Development & Databases:** React, Redux, Tailwind CSS, JavaScript, HTML, CSS, Bootstrap, EJS, Node.js, Express

CERTIFICATIONS

Completed **Alpha – DSA with Java** course from Apna College, solving 100+ problems and covering core Java and Data Structures & Algorithms. [certificate](#)