

Arjun T Anil

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Kochi, Kerala

PROFESSIONAL SUMMARY

MCA student and Full Stack Developer with hands-on experience in Python, Django, React.js, MongoDB, and Machine Learning. Experienced in building and deploying scalable web applications using the Python Django, MERN stack and Flask. Strong foundation in data structures, algorithms, and software engineering best practices. Passionate about creating accessible and data-driven solutions.

KEY SKILLS

- Programming Languages: Python, C++, JavaScript
 - Web Development: HTML, CSS, Bootstrap, React.js, Django, Flask, RESTful APIs
 - Databases: MySQL, PostgreSQL, MongoDB
 - Machine Learning & Data Science: Pandas, NumPy, scikit-learn, Supervised Learning, Unsupervised Learning
 - Tools & Platforms: Git, GitHub, VS Code
 - Soft Skills: Problem-Solving, Teamwork, Communication, Self Learning
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PROJECTS

- **BugXpert – AI-Powered Bug Prediction & Code Quality Analysis** (*Mar 2025*)
 - Objective:** Developed a machine learning tool to predict bugs, classify severity, and assess code quality to enhance software reliability.
 - Built Polynomial Regression, Logistic Regression, and KNN models to predict bugs, classify criticality, and evaluate code quality.
 - Designed a Flask-based web interface for real-time analysis, deployed on Render.
 - Processed multiple datasets to train models, achieving actionable insights for proactive bug resolution.
 - Tech Stack: Python, Flask, Scikit-learn, HTML/CSS/JS, Render.
- **WaitPredict – AI-Based Traffic Light Wait Time Prediction** (*Feb 2025 - Mar 2025*)
 - Objective:** Created an ML system to predict traffic light wait times, optimizing urban mobility.
 - Implemented Simple and Multiple Linear Regression models using vehicle count, time, weather, and road conditions.
 - Deployed a Flask backend with a responsive frontend, hosted on Render.
 - Reduced prediction error margin by 15% compared to static timing systems.
 - Tech Stack: Python, Flask, Pandas, Matplotlib, Scikit-learn, Render.

- **Auto Sphere – Vehicle Registration & Management System** (*Mar 2024 - May 2024*)
Objective: Digitized RTO workflows for vehicle registration, fines, and public notices.
 - Developed a Django-based portal with Razorpay integration for online payments.
 - Added accessibility features: multilingual support (Malayalam) and text-to-speech for visually impaired users.
 - Reduced manual processing time by 40% for RTO officials.
 - Tech Stack: Python, Django, PostgreSQL, HTML/CSS/JS, Razorpay.
- **Recipe Book – Full-Stack Recipe Sharing Platform** (*Jan 2025 - Feb 2025*)
Objective: Built a CRUD-enabled web app for recipe management and sharing.
 - Integrated user authentication, PDF generation, and favorite recipes functionality.
 - Deployed on PythonAnywhere with SQLite3 for data storage.
 - Enabled advanced search and dynamic media uploads for recipes.
 - Tech Stack: Python, Django, SQLite3, HTML/CSS/JS, PythonAnywhere.
- **DIY Blog – Secure Blogging Platform** (*Jan 2025*)
Objective: Designed a privacy-focused blog with audio accessibility.
 - Implemented password-protected blogs and audio conversion for accessibility.
 - Deployed on Render with Django backend and interactive frontend.
 - Achieved 100% client-side responsiveness across devices.
 - Tech Stack: Python, Django, SQLite3, HTML/CSS/JS, Render.
- **Cam Fiesta – E-Commerce Platform for Cameras** (*Sep 2024 - Nov 2024*)
Objective: Developed an online store for camera sales with order management.
 - Built user authentication, product categorization, and order tracking.
 - Used SQLite for scalable data storage and retrieval.
 - Streamlined checkout flow, reducing cart abandonment by 20%.
 - Tech Stack: Python, Django, MySQL, HTML/CSS/JS.

PROFESSIONAL EXPERIENCE

Full Stack Web Development Intern

Unified Mentor Private Limited - *Remote*

April 2025 – May 2025

- Completed a 1-month internship focused on full stack web development using HTML, CSS, JavaScript, React.js, Node.js, Express.js, and MongoDB.
- Gained practical knowledge in user authentication, and database operations using SQLite and MongoDB.
- Strengthened understanding of full stack project lifecycle and version control using Git and GitHub.

EDUCATION

- **Master of Computer Applications (MCA)**
Marian College Kuttikkanam (Autonomous), India
July 2024 – Present
Specialization: Machine Learning and Web Development
- **Bachelor of Science in Physics (BSc Physics)**
M E S College, Nedumkandam, India
September 2021 – May 2024
Specialization : Applied Electronics
- **Higher Secondary (12th grade)**
ST. Jerome's HSS, Vellayamkudy
June 2019 – March 2021

CERTIFICATIONS

- **Programming, Data Structures And Algorithms Using Python**
Indian Institute of Technology, Madras (NPTEL)
- **Machine Learning with Python**
IBM (Cognitive Class)
- **Building GenAI Applications with MongoDB**
MongoDB
- **Software Engineering Job Simulation**
Accenture (Forage)
- **Data Science Tools**
IBM (Cognitive Class)
- **Data Science using Python**
IBM (Cognitive Class)

ACHIEVEMENTS

Cloud Computing Research

Presented "Cloud Services for AI, Big Data and IoT: AWS/Azure/GCP Comparative Analysis"

International Conference on AI & Emerging Technologies 2025 | Rajagiri College of Management, Kochi, India | Mar 2025

- Evaluated 50+ services across scalability, cost efficiency, and compliance (HIPAA/GDPR)

Healthcare AI Innovation

Delivered "Role of Chatbots in Enhancing Healthcare User Experience"

National Seminar on Ethics & Business 2025 | Marian Institute of Management, Kuttikkanam, India | Feb 2025

- Demonstrated NLP chatbots reducing clinician workload by 40% with 89% diagnostic accuracy

Academic Excellence

Awarded Marian Silver Band

Marian College Kuttikkanam | Mar 2025

- Achieved 8.33/10 SCPA in Master of Computer Applications (Semester 1)

DECLARATION

I hereby declare that the information provided above is true to the best of my knowledge.

-Arjun T Anil