Athul Krishna A

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EDUCATION

APJ Abdul Kalam Technological University — Kerala
Bachelor of Technology in Computer Science — *Nov. 2021 – June 2025*

Kendriya Vidyala — Bhopal, MP
Science - PCMB — *Aug. 2018 – May 2020*

PROJECTS

EduLex AI | *React Native, Python, ARCore, Hume AI, Next.js, Node.js, Supabase, MongoDB, Fast API* — Ongoing
- Developing an AR/AI assistant teacher to support dyslexic students with personalized feedback and learning activities.
- **Features**: Includes interactive games, community support, multilingual support (including Malayalam), and parental tracking.
- **Tech Integration**: React Native for high-performance cross-platform app development, Fast api/Node js for robust backend services, and OpenCV/ARCore for advanced OCR and AR functionalities.
- **AI and Analysis**: Hume AI for facial expression and voice analysis to provide personalized feedback and adaptive learning experiences.

OneNote AI | *Python, Crew AI, Google Gemini, Serper API, Langchain, Docker* — April 2024 – June 2024
- Developed a multi-agent AI model for customized note generation.
    * **AI Agents**: Utilized Google Gemini for diverse functionalities.
    * **Custom Tools**: Assisted AI agents with web scraping, structuring information, and generating PDFs.
    * **Containerization**: Implemented Docker and asynchronous programming for smooth API integration.

KTU Toolkit | *React.js, Express.js, Node.js, MongoDB, Random Forest, aiogram, botfather* — Dec 2023 – May 2024
- Created an academic support system for KTU University students.
    * **SGPA Prediction**: Used Random Forest to predict students' SGPA.
    * **CGPA Goal Setting**: Applied constraint programming for CGPA goal setting.
    * **Analytical Insights**: Provided detailed analytics and study materials based on semester results.
    * **Web API and Telegram Bot**: Developed a web API and integrated a Telegram bot for easy access.

JavaSMT Contribution | *Java, JavaSMT, Git* — April 2023
- Contributed to the JavaSMT API, an open-source API layer for SMT solvers by adding an example program for solving the N-Queens problem.
- **Example Program**: Demonstrated the usage of JavaSMT for solving constraint satisfaction problems.
- **Open-Source Contribution**: Enhanced the repository by providing a practical example, aiding other developers in understanding and utilizing the tool.

ACHIEVEMENTS

Spark Venture 2024 Ignite Innovation Challenge: Participated and won 1st prize, conducted by Toc H Institute of Technology and Freshton Analytics Pvt Ltd, with funding of 1 Lakh INR. The idea was to build a Dyslexic Aid with AI and AR

Competitive Coding Competition: Secured 3rd prize in a coding competition held in 2022 by MANIT Bhopal exclusively for freshers.

ACM ICPC Regionals Participation: Participated in the ACM International Collegiate Programming Contest (ICPC) Regionals, [2022]. Gained valuable experience in problem-solving, algorithmic thinking, and teamwork.

TECHNICAL SKILLS

Languages: Python, Java, C, SQL, JavaScript
Frameworks: React Native, React js, Node.js, Langchain, Aiogram, Crew AI, Autogen Express.js
Developer Tools: Git, Docker, Postman API, Google Cloud Platform, VS Code, IntelliJ, ARCore, botfather
Libraries: OpenCV, pandas, NumPy, Matplotlib