**ABHIJITH UDAYAKUMAR**

**AI Expert / Python Developer**

Aberdeen, Scotland, United Kingdom

* +44 7442227330
* [abhijithukzm@gmail.com](mailto:abhijithukzm@gmail.com)
* LinkedIn : www.linkedin.com/in/abhijith-udayakumar
* Github : www.github.com/Abhijith14
* [Portfolio : abhijith14.github.io/Portfolio-v2](https://abhijith14.github.io/Portfolio-v2/)

**PROFESSIONAL SUMMARY**

Experienced AI and Python developer with a strong commitment to advancing technology. Proficient in computer vision, NLP, automation, and data analysis. Worked on 200+ projects, 10+ organizations in GitHub. Awarded by Intel India and recognized as a Debugging Expert. Seeking to drive innovation in a collaborative tech team.

**SKILLS**

* Python / R / CPP / Java
* Machine Learning
* Computer Vision
* Symbolic AI
* Natural Language Processing
* Reinforcement Learning
* Automation, Scraping
* Data Analysis & Visualization (Pandas, Matplotlib, Seaborn)
* Cloud Computing (AWS, Azure, GCP)
* Deep Learning Frameworks (TensorFlow, PyTorch, Keras)
* Web Development (Django, React)
* Software Engineering (Git, CI/CD, Docker)
* Statistical Analysis
* Project Management

**PROFESSIONAL EXPERIENCE**

* **Full Stack Developer and AI Support, G1GABYTE | Jun 2023 - Present**
* Develop and optimize scalable server-side systems and backend services using Python/Django frameworks.
* Designed and implemented API architectures and backends for 500+ web and mobile applications, ensuring scalability and reliability. Collaborated with cross-functional teams to deliver solutions that enhanced user experiences and achieved high customer satisfaction.
* Engineer efficient Python code and sophisticated SQL queries to develop rigorous data pipelines, reducing data processing time by 30%.
* Generate automated Python systems for workflow optimization, data transformation, and business analytics that saved 2 hours per week, leading to improved productivity.
* Implement authentication, access controls, encryption, and other security mechanisms, resulting in zero data breaches and ensuring the confidentiality of sensitive information.
* Build custom modules and programs for workflow automation, data processing, and other tasks. Developed automation scripts that reduced manual tasks by 50%, improving operational efficiency.
* Apply DevOps philosophies to backend systems including CI/CD, monitoring, and testing.
* Provide AI expertise to improve company internal processes and operations.
* Implement NLP: a pipeline to transcribe meeting audio, extract important discussion points using speech recognition and NLP techniques, and output a concise summary.
* Present AI solutions and results clearly to leadership to drive technology adoption.
* **Technical and Operation Support Officer – Computer Vision, GADS LLP | Aug 2020 – Sep 2022**
* Directed 25+ collaborations and 20+ project implementations in domains like automation, AI, and web development, applying methodologies like design thinking.
* Organized 30+ technical events with 100+ participants, elevating skill levels in programming, data science, and cyber security.
* Awarded 6 times for driving technical innovation and bringing state-of-the-art solutions to the organization and community.
* Established new IT department and pioneered adoption of technologies like cloud computing, strengthening technical capabilities.
* Built internal web apps and public websites seen by 1000s of customers, focused on performance, security, and scalability.
* **CEO / Founder. BUDDY Developer | Aug 2019 – Sep 2022**
* Led a team of students to develop over 100 real-time web and mobile applications, elevating technical skills and gaining full-stack development experience.
* Spearheaded end-to-end development including gathering requirements, designing solutions, writing code in languages like Python and JavaScript, integrating APIs, and deploying to production.
* Partnered with global clients to ideate and implement innovative projects utilizing technologies like automation, data analysis, machine learning, and natural language processing.
* Create scalable solutions optimized for performance, security, and reliability, with a focus on modular architectures and reusable code.
* Mentored teammates on best practices for agile development, debugging, and delivering maintainable code.
* Created the first IT club for the Science and Humanities department, establishing an inclusive technology community.
* Led a creative team that developed graphics, content, and media for events, marketing, and social media, enabling engagement with 1000+ students.
* Organized hackathons, workshops, and seminars to promote coding, project development, and peer learning among students.

**EDUCATION**

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| --- | --- | --- | --- |
| **Qualification** | **Year** | **Institute/University** | **Marks (Percentage)** |
| **MSc Artificial Intelligence** | Sep 2022 -  Sep 2023 | University of Aberdeen, Aberdeen, Scotland, United Kingdom | N/A |
| **Bachelors in computer applications** | July 2019 -  July 2022 | SRM Institute of Science and Technology | 98 |

**CERTIFICATIONS AND ACHIEVEMENTS**

* National level certificate of achievement in Python Debugging in 2020.
* Cognitive application certificate for EDA and ML coming under top 10.
* Winner of SRM Website Redesign Contest 2021, recognized for creating an innovative website design.
* Recognized as "Debugging Expert" at SRM University for effectively identifying and fixing coding issues.
* Managed club social media and designed interactive websites at LiveWires\_, improving brand visibility by 25%.

**PROJECTS**

* Developed a gesture recognition system using mediapipe computer vision, Google AI APIs for image and video analysis applications.
* Created SmartGitAuto, an automation tool to programmatically manage GitHub profiles and repositories.
* ML-MAS, a self-driving car simulation combining machine learning and multi-agent systems. Used CARLA simulator and leaderboard to train and evaluate models.
* More projects are included in my [portfolio](https://abhijith14.github.io/Portfolio-v2/) and [GitHub](https://github.com/Abhijith14).

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