

KASFI AHAMED

AI & ML Engineer

CONTACT

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PROFESSIONAL SUMMARY

AI & Software Engineer with hands-on experience in machine learning, backend development, automation, cloud services, and scalable system design. Skilled in building ML pipelines, developing REST APIs, deploying applications with Docker, and writing production-level Python/JavaScript code. Experienced in Linux/Unix environments, data processing, model evaluation, and workflow automation. Strong ability to translate complex technical problems into practical solutions, optimize system performance, and collaborate in cross-functional teams. Passionate about developing intelligent systems, cloud-based services, and reliable software that delivers real-world impact.

SKILLS

- **Programming:** Python, JavaScript (Node.js), SQL, Bash, Git, OOP, Linux/Unix
- **AI & Machine Learning:** Scikit-learn, Pandas, NumPy, ML pipelines, data preprocessing, model training/evaluation
- **Cloud & DevOps:** Azure AI Services, Azure Functions, Docker, Docker Compose, CI/CD fundamentals
- **Software Engineering:** REST APIs, backend development, testing, debugging, version control, documentation
- **Tools:** Linux servers, HPC environments, Postman, VS Code, Jupyter, GitHub

WORK EXPERIENCE

Network & Security Engineer at Computer Services limited, Dhaka, Bangladesh (Jul 2023 - Oct 2024)

- Designed and deployed automation scripts for network monitoring and issue alerts, improving incident response speed by 20%.
- Administered and secured digital election systems for national infrastructure.
- Managed data centres with 99.9% uptime and enhanced disaster recovery systems.
- Worked extensively in Linux-based environments for server configuration, scripting, and automation.
- **Key Achievement:** Improved incident response speed by 20% through automated monitoring and alerting scripts.

Campus Leader at Applink(Banglalink), Banglalink, Dhaka (Sep 2022 - Dec 2023)

- Led student engagement and digital activation campaigns, improving product adoption across university campuses.
- Conducted product research, user feedback collection, and market trend analysis to support product development teams.
- **Key Achievement:** Increased student engagement by 45% through targeted campus and digital campaigns.

Ambassador, AllCrew, Melbourne, VIC (Sep 2025 - Present)

- Represented the AllCrew brand in student communities and events.
- Engaged with students to promote app features and assist with onboarding.
- Provided customer support, answered product enquiries, and encouraged user adoption.
- Offered feedback to improve user experience and community engagement.
- **Key Achievement:** Boosted app adoption among students by 30% through proactive onboarding, community engagement, and consistent product support.

PROJECTS

- **Book API CRM Email Automation Workflow:** Developed a Node.js-based backend service that connects CRM data with email marketing tools via APIs to automate follow-up messages, reminders, and client onboarding sequences. Integrated logging, health checks, and performance monitoring using Prometheus. Implemented Docker-based deployment with a Jenkins CI/CD pipeline for automated testing, build, and deployment. Resulted in a 35% improvement in response rates and saved over 5 hours of manual work weekly. (Source code available on GitHub: [book-api](#))
- **Parking Data Analysis & Visualisation:** Conducted large-scale statistical modelling and time-series analysis on city parking data. Created an interactive dashboard for traffic flow optimization, providing actionable insights for congestion reduction. (Documentation available on GitHub: [Parking-data-Analysis](#))
- **Gold Price Prediction Model:** Built a machine learning model using LSTM and regression techniques to forecast gold prices based on historical and external economic data. Integrated automated data ingestion and visual reporting for market trend tracking. (Source code available on GitHub: [Gold-price-Prediction](#))
- **Travel Tour Recommendation Bot:** Azure OpenAI o3 (Frontend + Backend): Built a conversational assistant that recommends destinations and day-by-day itineraries from user preferences (budget, dates, interests, and travel dates). Used Microsoft Azure OpenAI (o3) for reasoning/planning and prompt tooling; designed structured JSON outputs so results can plug into Power Automate/Zapier or CRM forms. Implemented text + voice (Azure Speech to Text / Text to Speech) and image input so users can upload a photo for look-alike destination ideas. Added reusable API endpoints for saving conversations and exporting itineraries, enabling email summaries and task creation. (Source code available on GitHub: [travel-bot-project](#))

LEADERSHIP & AI IMPACT

- **Product Design & Engineer Lead:** Led a cross-functional team in Unit Team Project-A to deliver a full-stack web application integrated with the Google Gemini API for AI-enhanced features. Drove key efforts in system architecture, backend engineering, and deployment.
- **AI Demonstration:** Barwon Water (Deakin AI Practitioners Event) collaborated with Barwon Water engineers to demonstrate real-world AI integration, showcasing how AI can accelerate software development and automation through intelligent code generation.

COURSES & CERTIFICATIONS

- Azure AI Fundamentals AI-900: Microsoft (May 2025)
- Python (Basic): HackerRank (Jun 2023)
- Problem Solving (Basic): HackerRank (Jun 2023)

ACADEMIC HISTORY

Deakin University, VIC, Australia - Master of Applied Artificial Intelligence **(2025 - Present)**

BRAC University, Bangladesh - Bachelor of Computer Science and Engineering **(2019 - 2023)**

AVAILABILITY

Available to start **immediately**, with **full availability** across all days of the week, including weekends and public holidays.

INTERESTS

- Research & Innovation
- Gaming
- Travelling
- Movie Critique