

Md. Al Amin

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AI ENGINEER

Aspiring AI Engineer with extensive knowledge of designing, deploying, and fine-tuning advanced AI models and systems. Skilled in leveraging cloud platforms like Azure and AWS for generative AI and predictive analytics. Adept at integrating tools, optimising workflows, and delivering AI-driven business solutions. Passionate about developing scalable, data-driven solutions to enhance user experiences and business operations.

TECHNICAL SKILLS

Python	Django	AWS
Linux	Metrics Development	Predictive Analytics
Advanced Reporting Tools	System Integration	Advanced Analytics

PROJECTS

Semantic Analysis From Text - Thesis [2023]



- Conducted a comparative analysis of rule-based and machine learning-based approaches to Part-of-Speech (POS) tagging and Named Entity Recognition (NER).
- Evaluated the accuracy and efficiency of NER systems, highlighting trade-offs between manual rule-based techniques and machine learning models.
- Demonstrated the strengths and limitations of rule-based NER, emphasising its dependency on human expertise.
- Explored the computational demands and high accuracy potential of machine learning-based NER systems.
- Presented findings with significant implications for developing and optimising state-of-the-art NER solutions.

Generative AI Chatbot

- Designed and developed a customer-facing chatbot using GPT-based generative AI models to enhance user interactions and support services.
- Engineered customised prompts to align with the organisation's brand tone, ensuring relevant, accurate, and engaging responses tailored to user queries.
- Conducted iterative testing and fine-tuning of the chatbot model, leveraging platforms such as OpenAI to optimise performance for diverse user scenarios.
- Integrated the chatbot into the company's existing communication channels, including web platforms and messaging systems, for seamless deployment.
- Achieved a 30% improvement in customer satisfaction scores, measured through user feedback and reduced response time for resolving queries.

Email Campaign Optimization

- Implemented Amazon Simple Email Service (SES) and Sendy to streamline large-scale email campaigns, catering to a growing customer base.
- Configured email workflows and ensured compliance with email deliverability best practices, including DKIM, SPF, and DMARC protocols, to minimise bounce rates and spam issues.
- Designed and analysed A/B testing campaigns to evaluate subject lines, email content, and delivery schedules, identifying strategies that maximised open rates and click-through rates.
- Enabled real-time tracking of email metrics, integrating analytics dashboards for monitoring key performance indicators like deliverability, user engagement, and conversion rates.
- Improved email deliverability and engagement by implementing targeted audience segmentation and personalised content, driving higher customer interaction.

AI-Driven Ad Server Metrics

- Developed and implemented AI-driven metrics and reporting systems for an ad server platform aimed at providing actionable insights to advertisers and publishers.
- Utilised machine learning techniques to analyse ad performance data, including click-through rates, impressions, and conversion metrics, to identify trends and optimise campaigns.
- Designed a custom dashboard powered by advanced analytics tools, enabling stakeholders to visualise ad performance in real time and make data-driven decisions.
- Automated the generation of periodic reports, reducing manual effort and improving the accuracy and timeliness of insights provided to clients.
- Enhanced the platform’s user engagement and advertiser satisfaction by providing precise targeting recommendations and uncovering areas for ad campaign improvement.

EDUCATIONAL QUALIFICATIONS

United International University (2023)
B.Sc Computer Science and Engineering

Dean’s List Award

MasterMind College (2018)
Cambridge A Level

Physics
Chemistry
Mathematics
Biology

Paramount School (2015)
Cambridge O level

Physics
Chemistry
Biology
English
General Mathematics
Higher Mathematics
Bengali