

Mohammed Abdul Rahman

Gen AI Engineer | AI/ML Engineer | Data Scientist

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SUMMARY:

- **Results-driven AI/ML Engineer** specializing in generative AI technologies, with around **1 year** of experience in designing, developing, and deploying advanced machine learning models and AI solutions, leveraging **AWS** to support scalable implementations.
- **Proficient in Python, R, and ML frameworks** (TensorFlow, PyTorch, Scikit-learn), handling **large datasets** and driving **AWS-based AI initiatives**, boosting **operational efficiency** by 25%.
- **Skilled in end-to-end ML project management**, overseeing **10+ projects** focused on **generative models** and **AWS optimization**, ensuring robust delivery.
- A collaborative team player with strong **communication skills**, effectively working with **cross-functional teams** of **10+ members** to align technology solutions with business objectives, particularly in projects involving generative AI.
- **Passionate about AI trends**, including **generative AI** and **AWS technologies**, contributing to **5+ projects** and open-source initiatives, focused on **driving innovation**.

TECHNICAL SKILLS:

Programming	SQL, Python, HTML, CSS & JS
Database Management	MySQL/Postgres, Excel, RDS, Redshift, Athena
AIML Technologies	Machine Learning, Deep Learning and Generative AI
AWS Cloud	EC2, S3, RDS, SageMaker, CloudWatch and ELB
Visualization	Power BI & Tableau
Tools/ Environment	Vs Code, Jupyter Notebook, Git & GitHub

EXPERIENCE:

TheSmartBridge | AI/ML Intern | Hyderabad

Aug 2024 – Present

- Engaged with cutting-edge technologies, including **Generative AI, AWS**, and **Machine Learning**, contributing to **3** major project initiatives.
- Delivered **5** knowledge-sharing sessions to enhance team understanding of emerging tech trends and best practices, reaching an audience of over **20** team members.
- Collaborated in a team-oriented environment with **10+ colleagues**, contributing to brainstorming sessions and project discussions that led to innovative solutions.
- Consistently met project deadlines, achieving a **100% on-time delivery rate** for assigned tasks over the internship period.
- Participated in **3** physical mentoring sessions and **2** on-campus training workshops, fostering skill development and hands-on experience among peers.

- Led the transformation of **100+ raw datasets** into structured formats, enhancing data accessibility and analysis efficiency.
- Conducted detailed exploratory data analysis (EDA) on **30+ datasets**, identifying actionable insights that led to a **20% improvement** in decision-making processes.
- Developed and optimized **5+ machine learning models** using **scikit-learn**, achieving an average increase of **15%** in predictive accuracy.
- Created **15+ interactive dashboards** and visualizations in Power BI, facilitating data-driven discussions and strategic alignment across departments.
- Collaborated with cross-functional teams on **3 major projects**, delivering comprehensive data solutions that were instrumental in achieving project milestones and client satisfaction.

KEY PROJECTS:

AI-Enhanced Personalized Financial Advisor

- Developed an **AI-driven financial advisory platform** using **Gemma 9B** for personalized guidance, featuring a **FinBot AI Assistant**, **Advanced Financial Calculator** (IRR, ARR, NPV), and **live stock price integration** via **Alpha Vantage API**.
- Implemented an **Income and Expenditure Tracker** for real-time financial monitoring, offering users insights into their income and spending habits.
- **Deployed on AWS** utilizing **Amazon EC2**, **AWS Lambda**, **Amazon S3**, **Amazon RDS**, and **Elastic Load Balancing (ELB)** for scalable, high-performance, and reliable services.

AI-Driven Personalized Marketing platform:

- Developed an **AI-powered marketing platform** utilizing **ML, DL**, and **AWS technologies** to automate and personalize marketing campaigns.
- Collecting **contact details** and **messages** from users, allowing them to schedule campaigns through **social media platforms** like **WhatsApp** using **PyWhatKit**.
- Enabling **email automation**, where users can upload a **CSV file** containing email addresses, and the system fetches the emails to send personalized messages to recipients.

Chess Piece Detection Using Deep Learning (DenseNet121)

- Developed a **deep learning-based chess piece detection system** using **DenseNet121** for accurate classification and real-time detection of chess pieces.
- **Real-time Chess Piece Recognition:** Utilizes **DenseNet121** to classify and detect 12 different types of chess pieces from images, ensuring precise identification across various chessboard setups.
- **Image Preprocessing:** Applied image augmentation techniques to improve model robustness and performance, handling diverse piece orientations, lighting conditions, and camera angles.

EDUCATION:

- **Osmania University** - Hyderabad | Master's Degree in Business Administration | Dec 2021 – Oct 2023.
- **Osmania University** - Hyderabad | Bachelor's in Commerce & Computer Application | Jun 2018 – Sep 2021

CERTIFICATIONS:

- Python for Data Science
- MySQL RDBMS
- Power BI
- TCS ION CAREER EDGE_YOUNG PROFESSIONAL
- Business Analytics with Excel
- AWS Certificate of training