Fasalu Rahman Kottaparambu

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Recent AI/ML graduate with 7+ years in database engineering and report generation. Expertise in SQL optimization, ETL pipelines, Business Intelligence, Business Analytics, Python and AI prototyping. Proven in Agile teams, delivering client-focused solutions for financial services.

Work Experience:

Software Engineer
Speridian Technologies, India   **Apr 2023 - Mar 2024**
- Led small team, mentoring on database design and query optimization.
- Collaborated with stakeholders to refine requirements and enhance solution quality.
- Created indexes, views, functions, stored procedures, and triggers for efficient data handling.
- Built SSIS packages for complex ETL processes on fact/dimension tables.
- Tuned SQL queries, reducing time/CPU usage by up to 40%.
- Managed patch fixes, releases, and version control via TFS.
- Performed code reviews, unit testing, and documentations.
- Used SSRS and Power BI for reporting and business intelligence.

SQL Developer
Sesame Software Solutions (*now part of Speridian Technologies***) - India**   **Mar 2018 - Mar 2023**
- Designed and maintained SQL Server databases for banking solutions.
- Migrated data from diverse sources to SQL Server, ensuring seamless transfers.
- Developed SSIS packages and scripts for efficient migrations.
- Created indexes, views, functions, stored procedures, and triggers.
- Tuned queries for performance, updates, and modifications.
- Delivered analytics dashboards/reports using SSRS and Power BI.
- Set up disaster recovery and automated processes, cutting manual effort by 90%.
- Provided onsite support during/after migrations.

Software Engineer - Data Migration
Sesame Software Solutions (*now part of Speridian Technologies***) - India**   **Feb 2018 - Mar 2018**
- Migrated data from various databases to SQL Server.
- Optimized queries for modifications and performance gains.
- Built SSIS packages/scripts for smooth data transfers.
- Offered onsite client support pre/post-migration, given training to staffs and performed UAT process.

Software Engineer Trainee - Implementation and Technical Support
Sesame Software Solutions (*now part of Speridian Technologies***) - India**   **Jan 2017 - Jan 2018**
- Implemented browser-based apps on client servers.
- Set up SQL jobs for backups, log shipping, and performance monitoring.
- Provided online/onsite support for bank software issues.

Software Developer Intern
Spectrum Softtech Solutions Pvt. Ltd. Kochi, India   **May 2016 - Dec 2016**
- Gained experience in Core Java, Servlet, JSP, Hibernate, Spring, and Bootstrap.
- Supported development tasks in software division.

Projects:

Keyboard Vision AI
- Built real-time keystroke monitoring tool with DistilBERT for sentiment analysis.
- Integrated system tray alerts, Telegram reporting, and encrypted logging.

Student Affairs Chatbot
- Developed Python/Streamlit app with TF-IDF search and sentiment analysis.
- Used Hugging Face models, OpenAI API, and context memory for escalation.

Crypto Price Prediction & Forecasting
- Created ML pipeline (Pandas, Scikit-learn, Prophet) for coin price forecasting.
- Handled data cleaning, feature engineering, visualized dashboards with metrics.

Sugar Cane Growers Fund Dashboard
- Built Power BI dashboard for financial/agricultural KPIs.
- Applied DAX measures and filters for trend analysis and insights.

Skills:

Soft skills and competencies
Prompt Engineering, Problem-solving and critical thinking, Communication and collaboration, Continuous learning and adaptability, Attention to detail, Time management and project management, Team Management and Version Control.

Programming & AI: Python, Java, Scikit-learn, Pandas, NumPy, PyTorch, TensorFlow, Hugging Face, OpenAI API
Web & Cloud: HTML, Streamlit, AWS & Azure (basics).
Databases & ETL: SQL Server, MySQL, PL/SQL, PostgreSQL, Snowflake, MongoDB, Cassandra, Neo4j, CouchDB, SSIS, OLAP Cubes, ODI, Hadoop and hive
Other Tools: Power BI, SSRS, Excel, Git, TFS, Docker

Education:
Applied Artificial intelligence & Machine learning (Co-op) - Post-Graduate Diploma (Distinction) May 2025 - Dec 2025
Reporting System & Database Development - Post-Graduate Diploma (Distinction)   May 2024 - Dec 2024
Computer Engineering - Diploma in Engineering (3 Year)   May 2013 - May 2016

Honor Awards:
- Spot Award (Nov 2023) *Speridian Technologies*
- Best Performer of The Quarter (Q1 2020) *Sesame Software Solutions*

Certifications:
- Docker Foundation
- Neo4j Fundamentals
- Snowflake Hands On essentials
- Microsoft AI & ML Engineering