AKASH T S M

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SUMMARY

Computer Science Engineering undergraduate (CGPA: 9.38) with strong analytical thinking, quantitative problem-solving skills, and programming expertise. Proficient in Python, R, SQL, Java, and statistical analysis with hands-on experience in machine learning algorithms, data exploration, and advanced analytics. Demonstrated ability to synthesize results into actionable insights through rigorous statistical modeling and data-driven solutions. Strong business acumen with excellent communication skills to present findings to stakeholders.

TECHNICAL SKILLS

Programming & Analytics: Python, R, SQL, Java, C++, SAS, JavaScript, statistical packages
Machine Learning: Support Vector Machines, Decision Trees, Logistic Regression, Neural Networks, Clustering, Graphical Models
Data & Analytics: Statistical Modeling, Data Mining, Predictive Analytics, Data Exploration, Data Preparation, Quantitative Analysis
Databases & Big Data: MySQL, PostgreSQL, MongoDB, Big Data Technologies, Data Integration, Data Mapping
Cloud & Tools: AWS, Docker, Kubernetes, Interactive Visualization, Business Intelligence, Risk Analytics
Core Competencies: Mathematical Modeling, Statistical Analysis, Risk Management, Data Strategy, Business Analytics

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EDUCATION

Vellore Institute of Technology (VIT), Vellore
B.Tech in Computer Science & Engineering | **CGPA: 9.38** | 2023–2027

PROJECTS

Advanced Risk Analytics & Modeling Platform – Python, R, SQL, Machine Learning, AWS
• Developed statistical models using logistic regression, decision trees, and neural networks for risk prediction with 92% accuracy
• Performed quantitative analysis of large datasets to identify trends, patterns, and correlations for business performance improvement
• Created interactive visualization reports integrating multiple data sources for monitoring risk metrics across product portfolios
• Applied rigorous analytics methodology to formulate strategic questions and deliver actionable insights to stakeholders

Customer Segmentation & Marketing Analytics Engine – Python, SQL, Statistical Modeling, Clustering
• Built advanced analytics solutions using clustering algorithms and statistical analysis to segment customer base
• Conducted data exploration and preparation using Python and SQL, processing 1M+ customer records
• Generated deep insights through analysis of operational processes and customer behavior patterns
• Delivered compelling presentations with clear storytelling to influence management decisions and drive marketing strategies

Financial Data Analytics & Reporting System – R, Python, SQL, Business Intelligence
• Performed mathematical model development and validation using statistical packages and programming languages
• Integrated datasets from multiple sources to support strategic initiatives and develop comprehensive analytics framework
• Built prototype solutions demonstrating advanced quantitative analysis concepts with ensemble methodologies
• Conducted ad-hoc analysis to identify business insights and deviations from expected performance metrics

CERTIFICATIONS & QUALIFICATIONS

- **AWS Cloud Practitioner** – Amazon Web Services Training
- **Machine Learning Specialization** – Coursera (Andrew Ng)
- **Statistical Analysis & Data Science** – Self-study and practical application
- **Big Data Technologies** – Hands-on experience with distributed systems and cloud-based analytics