KALPANA SUBRAMANI

Lead Analyst

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Excel as a **Lead Data Science Analyst** with 8 years of hands-on experience in **Software Development, focusing on Python and SQL technologies.** Passionate about **Machine Learning and Data Analytics**, skilled at problem-solving, effective communication, and driving technology adaptation within teams.

EDUCATION

2023: Diploma in Data Science from IIT Madras, Chennai

2008: MCA from VIT University, Vellore

2005: B.Sc. (Computer Science) from Madras University, Vellore

CORE COMPETENCIES

- o Data Visualization
- o Business Intelligence Strategies
- o Predictive Modeling
- o Data Interpretation
- o Machine Learning
- o Decision Support Systems
- o Data Warehousing
- o Cloud Computing
- o Data Mining

TECHNICAL SKILLS

- o Python
- o SQL
- o Scikit Learn
- o Numpy & Pandas
- o Linear Algebra and Statistics
- o SharePoint Expertise
- o Power Automate/BI
- o Tableau
- o PowerShell
- o Java Script
- o HTML, XML
- o AWS
- o Flask API
- o Streamlit

SOFT SKILLS

- o Communication
- o Problem-solving
- o Time Management
- o Leadership

CERTIFICATIONS

- o Microsoft Certified– Azure AI Fundamentals– AI- 900
- o MCTS– Certified on Microsoft Office SharePoint

PROFILE SUMMARY

- With nearly 8+ years of experience in the IT industry, primarily in Banking and Information Technology, skilled in **Python, SQL, Machine Learning, Scikit Learn, Numpy & Pandas, and Predictive Analytics.**
- Spearheaded the **creation of a machine learning solution at CGI** aimed at forecasting loan approval probabilities and determining optimal loan values for clients, enhancing financial decision-making processes.
- Possess a **strong foundation in linear algebra, statistics, and expertise in SharePoint, Power Automate/BI, and Tableau.**
- Effectively **guided the complete lifecycle of model development**, emphasizing the **enhancement of hyperparameters** to ensure superior performance and reliability in predictive analytics.
- **Displayed leadership skills** in guiding teams and fostering a collaborative work environment.
- Proficient in **conducting feature engineering** and extraction to enhance model performance and interpretability.
- Proficient in **leveraging advanced data analysis techniques and machine learning algorithms** to derive actionable insights and drive strategic decision-making processes.

WORK EXPERIENCE

CGI | (Jul'21- Present)

Key Result Areas as Lead Analyst (Jan'22– Present):

- Spearheading data analysis initiatives, ensuring accuracy, relevance, and actionable insights.
- Providing critical support in decision-making processes by interpreting complex data and trends.
- Fostering collaboration within the analysis team, promoting knowledge sharing and skill development.
- Implementing and maintaining rigorous quality assurance processes for data analysis outputs.
- Staying updated on industry trends, incorporating innovative technologies into data analysis practices.
- Effectively communicating findings and insights to clients, ensuring a clear understanding of analytical outcomes.
- Leading and managing analytical projects, ensuring timely delivery and adherence to project objectives.
- Identifying opportunities for process optimization and driving continuous improvement initiatives within the analysis team.

Key Result Areas as Senior Developer (Jul'21- Jan'22):

- Led and administered software development projects, ensuring high-quality and timely delivery.
- Enforced coding standards and best practices to maintain high-quality, scalable, and maintainable code.
- Fostered a collaborative environment within the development team, encouraging effective communication and knowledge sharing.
- Stayed updated on emerging technologies and industry trends, incorporating relevant advancements into development processes.
- Provided expertise in problem-solving and troubleshooting, contributing to the resolution of complex technical issues.
- Conducted thorough code reviews to ensure adherence to coding standards and facilitated continuous improvement.
- Took ownership of project timelines and deliverables, ensuring successful and on-time completion of development tasks.
- Mentored junior developers, facilitated their professional growth, and fostered a culture of continuous learning within the team.

Key Result Areas as Software Engineer (Aug'08- Mar'14):

- Directed comprehensive operations for CynerGI – SP (INTRANET), supervised Logica Global applications on SharePoint 2010 for a global user base of 40,000, inclusive of Big Data support and health monitoring.
- Implemented SharePoint DATA ARCHIVING using AvePoint's DocAve 5.7, enhanced storage efficiency, and configured Metalogix Control Point for seamless data relocation within SharePoint.
- Conducted code reviews and refactoring activities to improve code maintainability and performance.
- Led the development of new features and functionalities in collaboration with cross-functional teams.
- Explored and integrated new technologies into the existing technology stack to enhance overall system capabilities.
- Identified and implemented optimizations to improve software performance and response times.
- Investigated and resolved software bugs promptly, ensuring the stability of applications.
- Worked closely with testing teams to validate software functionalities and ensure high-quality releases.

ENTRPRENIUAL EXPERIENCE

Entrepreneur | KaiWinai Arts | (Jan'15- Jun'21)

Key Result Areas:

- Developed and articulated a clear vision and strategy for the business, aligning it with long-term goals.
- Implemented effective financial management practices to ensure the business's fiscal health and sustainability.
- Fostered a culture of innovation, encouraged the development of new products, services, or processes, and adapted to market changes.
- Led and inspired the team, fostered a positive work environment, and promoted professional growth among team members.
- Continuously conducted market research and analysis to identify opportunities, stay ahead of industry trends, and made informed business decisions.
- Built and maintained strong relationships with customers, ensuring their needs were met, and expectations exceeded.
- Identified, assessed, and managed risks associated with the business, implementing strategies to mitigate potential challenges.
- Developed and implemented effective branding and marketing strategies to enhance the business's visibility and market presence.
- Streamlined business operations for maximum efficiency, optimized processes, and allocated resources effectively.
- Integrated social responsibility practices and ethical considerations into business operations.
- Built and leveraged a strong network of industry contacts, potential partners, and collaborators to enhance business opportunities.

PROJECTS UNDERTAKEN

- **Lend AI: Intelligent Loan Decision System, FCIB:**

Goal: Develop a machine learning model aimed at predicting the probability of loan approval for applicants and determining the suitable loan amount for each customer.

- Utilizing historical data and diverse financial features, we employ classification algorithms like logistic regression and random forest to evaluate credit risk.
- Executed feature engineering and extraction techniques to augment model performance and interpretability.
- Guided the entire process of model development, encompassing construction, training, and fine-tuning of machine learning models dedicated to predicting loan approval; emphasis was placed on optimizing hyperparameters to enhance performance and reliability.

- **FCIB ECM Records-Automated workflow using Azure Functions for SharePoint, FCIB:**

Goal: Create a time-triggered Azure Functions in C# utilizing the Microsoft Graph API to integrate with FCIB's SharePoint Online site

- Triggered Workflow: The Azure Functions execute upon new document uploads to the Drop Off Library, initiating a series of actions based on predefined conditions.
- Azure SQL Integration: Secure connections to Azure SQL are established using credentials retrieved from the key vault, enabling efficient data retrieval and processing.
- Metadata Update: The workflow updates document metadata by cross-referencing CIF Numbers extracted from uploaded documents with records stored in Azure SQL.
- Document Management: Processed documents are relocated to appropriate document libraries within SharePoint based on updated metadata, ensuring proper organization and accessibility.

- **FCIB ECM Records, FCIB**

Objective: Establish a repository for storing imaged documents and records of FCIB in SharePoint Cloud.

- Administered the SharePoint Migration from FCIB SharePoint On-premise to SharePoint Online, utilizing SPMT and PowerShell scripts for the creation of Content types and metadata.
- Implemented Power Automate workflows tailored for validation and access approval within the SharePoint Cloud environment.

- **Sentiment Analysis for a Movie Review**
- **BDM Capstone on Karthik Engineering Works**
- **Store Sales– Time Series Forecasting– ML to predict the grocery sales.**
- **Stock Price Prediction – Time Series Forecasting**

PERSONAL DETAILS

Date of Birth:	19th September 1984
Languages Known:	English and Tamil
Location:	Chennai