

# Divya Vemula

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## Highlights

- 5+ years of experience in Software Engineering, transitioning into Data Science, specializing in **AI/ML, Big Data, Gen-AI, NLP, LLMs, RAG, and Prompt Engineering**.
- Applied advanced techniques such as **Random Forest, Gradient Boosting, Neural Networks, LSTM, BERT, and RAG** to build predictive models and AI-driven solutions.
- Built interactive data visualizations using **Tableau, Power BI, and Explainable AI (XAI)**, enabling data-driven decision-making.
- Proficient in **Prompt Engineering**, designing and optimizing prompts for LLMs like GPT, Llama, and BERT to enhance model performance and accuracy.

## Technical Skills

Programming Languages:	Python, SQL, R, NoSQL, C#, ASP.NET, JavaScript, jQuery, CSS, HTML.
Frameworks & Libraries:	PyTorch, TensorFlow, Scikit-learn, spaCy, Pandas, NumPy, SciPy, NLTK, Text Blob, VADER, Genism, Requests, Beautiful Soup.
AI/ML Tools:	Databricks, H2O AutoML, AutoKeras, GPT, BERT, Distil BERT, Llama, LaMDA, OPT.
Data Visualization:	Tableau, Power BI, Explainable AI (XAI).
Cloud & Big Data:	Jupyter, Google Collab, GCP, Hadoop, HDFS, PySpark, Kubernetes, Docker, MongoDB.
Automation & Collaboration:	SharePoint, SPFx, Power Automate/Apps, Excel.
Supervised Learning:	Logistic Regression, Decision Tree, Random Forest, Gradient Boosting, Naive Bayes, Neural Networks, Support Vector Machines, Linear Regression.
Unsupervised Learning:	K-Means Clustering, Anomaly Detection, Dimensionality Reduction, LDA, TFIDF, Word Embeddings, BOW.
Deep Learning:	CNN, RNN, LSTM.
NLP Applications:	Text and Sentiment Analysis, Translation & Speech Processing, Healthcare & Security.

## Education

- Master of Science** in Information Systems  
*Georgia State University, J. Mack Robinson College of Business* | GPA: 3.88/4.0
- Bachelor of Engineering** in Electronics and Communication  
*Anna University* | GPA: 3.2/4.0

## Professional Experience

- Graduate Research Assistant** | *Georgia State University, Atlanta* | Aug 2024 – Present
- Designed and implemented an automated workflow using Power Automate and SharePoint, reducing professor-student communication processing time by 70%.
  - Developed a system for automated GRA/GTA candidate selection, improving workflow efficiency and enabling real-time email notifications.
  - Collaborated with professors to ensure seamless integration of automation tools, enhancing overall communication and productivity.

## **Software Engineer** | *Cognizant Technology Solutions, India* | Oct 2021 – Dec 2022

- Developed custom SPFX web parts for SharePoint, improving user experience and addressing unique client requirements.
- Integrated Viva Connections into Microsoft Teams, fostering employee engagement and providing actionable insights.
- Automated SharePoint list updates using Power Automate, reducing manual data entry by 70% and ensuring real-time data synchronization.
- Collaborated with clients to align solutions with business goals, significantly enhancing SharePoint and Teams usage.

## **Technology Analyst** | *Infosys Ltd Solutions, India* | Dec 2017 – Oct 2021

- Managed site validation and content migration from on-premise SharePoint to SharePoint Online, ensuring seamless data transition.
- Automated document approvals and user requests using Nintex workflows, reducing manual effort by 50%.
- Designed and customized SharePoint sites and web parts, optimizing business processes and improving user experience.
- Trained new joiners on SharePoint workflows, ensuring smooth onboarding and team integration.

### **Key Projects**

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#### **Agriculture Farmer Services: AI-Driven Platform for Farmers** [GitHub]

- Implemented Built an AI-powered platform using SQL, RAG, and LLMs (Llama, GPT) to connect farmers with service providers, eliminating middlemen and ensuring fair pricing.

#### **Sentiment Analysis of Fake News** [GitHub]

- Built Developed an NLP-based model using BERT, LSTM, and VADER to detect emotional triggers in fake news on social media.

#### **Loan Approval Prediction** [GitHub]

- Designed ML models to predict loan approvals, aiding banking decisions and improving accuracy by 20%.

#### **Global Trade Patterns Forecasting** [GitHub]

- Developed a deep learning model using H2O to forecast global trade trends, achieving 85% accuracy.

### **Certifications**

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#### **AWS Academy Certifications**

- Machine Learning Certificate [GitHub]

#### **IBM Data Science Professional Certifications**

- IBM Data Analysis with Python [GitHub]
- IBM Applied Data Science Capstone [GitHub]
- IBM Data Visualization with Python [GitHub]
- IBM Databases and SQL for Data Science with Python [GitHub]
- IBM Python Project for Data Science [GitHub]
- IBM Data Science Methodology [GitHub]
- IBM Machine Learning with Python [GitHub]
- IBM Python for Data Science, AI & Development [GitHub]
- IBM Tools for Data Science [GitHub]
- IBM Generative AI [GitHub]
- IBM Data Scientist Career Guide and Interview Preparation [GitHub]

### **Other Skills**

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Data Storytelling | Data Collection | Data Cleaning/Preprocessing | Statistical Analysis | Model Evaluation | Cluster Management | Hyper Parameter Tuning | Data Visualization