Venkat Neeraj Reddy Dwarampudi

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SUMMARY

AI and ML Engineer with a strong foundation in Python, statistical modeling, and data visualization. Skilled at extracting insights from complex datasets and delivering impactful business solutions through real-world projects and virtual internships. Proficient in tools like Power BI and SQL, with hands-on experience building full-stack applications and AI-powered platforms. Eager to leverage data science and AI to solve practical challenges and drive innovation.

SKILLS

- **Languages and Tools:** Python, R, SQL, Power BI, MySQL, Excel
- **Frameworks and Libraries:** Pandas, NumPy, Scikit-Learn, TensorFlow, Matplotlib
- **Technical Skills:** Data Visualization, Data Modeling, Data Preprocessing, Statistical Analysis, Business Intelligence, Machine Learning, Prompt Engineering
- **Soft Skills:** Critical Thinking, Problem-Solving, Team Collaboration, Growth Mindset, Communication, Adaptability

EXPERIENCE

JPMorgan Chase & Co. Quantitative Research Virtual Internship ⬈   **March 2025**

- Modeled natural gas storage valuation using pricing differentials, reducing manual estimation efforts by 60%.
- Predicted loan default risk using borrower attributes and FICO scores, achieving 85% accuracy on test data.
- Created FICO bucketing logic for mortgage default segmentation, enabling 30% faster model convergence.

Boston Consulting Group (BCG) Data Science Virtual Internship ⬈   **April 2025**

- Analyzed churn patterns in customer data, uncovering 3 crucial indicators with a 70% correlation to churn.
- Engineered 15+ predictive features for churn modeling, improving model precision by 22%.
- Trained a Random Forest classifier achieving 82% F1-score, aiding targeted customer retention strategies.

PROJECTS

PwC Virtual Internship ⬈   Task1 | Task2 | Task3

- Created interactive Power BI dashboards, slashing reporting time by 40% and enhancing KPI visibility.
- Analyzed churn among 7,043 customers, identifying 2,955 high-risk users and enabling targeted campaigns.
- Designed a D&I dashboard highlighting a 3:2 male-female ratio, revealing gaps in promotions across roles.

Script AI – AI-Powered Content Automation Platform ⬈

- Developed a full-stack SaaS platform for automated script generation using OpenAI, React, and Node.js.
- Built secure tier-based subscriptions with JWT authentication and role-based access control.
- Designed responsive UI using Tailwind CSS and integrated analytics for user engagement.

Heritage AR – Augmented Reality Platform for Historical Exploration ⬈

- Engineered a browser-based AR experience using WebXR, Three.js, and React Three Fiber.
- Built immersive UI with Tailwind CSS and Shadcn UI, enhancing user interactivity and accessibility.
- Implemented user authentication, 3D model manipulation, and favorite tracking with PostgreSQL.

EDUCATION

Bachelor of Engineering in Artificial Intelligence and Machine Learning   **10/2022 – 05/2026**

Gokaraju Rangaraju Institute of Engineering and Technology

CERTIFICATIONS

- Microsoft Essentials in Data Analysis ⬈
- Microsoft Power BI for Data Analytics ⬈
- AI Using Python ⬈
- Microsoft Essentials in Generative AI ⬈
- Microsoft Essentials in Business Analysis ⬈
- Microsoft Essentials in Software Development ⬈

EXTRA-CURRICULAR ACTIVITIES

- Participated in Hackathons ⬈
- Attended Webfolio and Gen AI Workshops ⬈