

# DIVYA PULLIVARTHI

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## SUMMARY

Full-Stack Data Systems and Analytics professional with a Master's in Information Systems and strong foundation in data engineering, analytics, and software development. Experienced in building end-to-end data pipelines, full-stack dashboards, and proactive monitoring tools using modern CI/CD practices. Skilled in quantitative analysis, machine learning, and business intelligence with tools such as Python, R, SAS, SQL, Power BI, and Tableau. Proven success in improving decision-making through data-driven insights, optimizing processes, and leading Agile teams. Recognized for research publications, mentorship, and delivering scalable, impactful solutions in both academic and industry settings.

## EDUCATION

### DePaul University

*Masters, Information Systems*

**Chicago**  
GPA: 3.97/4.0

### MIT Art, Design, and Technology University

*Bachelor of Technology, Electronics and Computer Engineering*

**Pune**  
GPA: 8.21/10

## EXPERIENCE

### Skypulse Connectivity

*Full-Stack Data Systems Intern*

**Sep 2025 - Present**  
*Chicago, IL*

- Built an end-to-end data pipeline with data lake and warehouse to process real-time telemetry.
- Developed a full-stack dashboard with scalable backend to deliver actionable insights.
- Implemented notification and fleet management tools for proactive monitoring.
- Applied CI/CD and automation best practices under mentorship in software engineering and data systems.

### College of Computing and Digital Media, DePaul University

*Grader*

**Sep 2024 - Present**  
*Chicago, IL*

- Reviewed course material in Data Analysis, Statistics, Regression, Cloud Computing, and Systems Analysis and Design, demonstrating a solid foundation in quantitative methods.
- Assessed over 500 student submissions across quizzes, homework, and projects, providing detailed and clear feedback that enhanced understanding and engagement by 30%, aligning with effective communication and report preparation.
- Created and standardized comprehensive grading rubrics, reducing discrepancies by 20% and ensuring consistent assessment quality; collaborated with faculty to refine guidelines reflective of rigorous research and analytical standards.

### Pianalytix Edutech

*Intern*

**Jan 2023 - Jun 2023**  
*Pune, India*

- Analyzed large datasets using Python to uncover patterns, thereby improving reporting efficiency by 25% and providing a strong basis for further quantitative analysis.
- Cleaned and validated data for deep learning tasks, increasing input quality by 15% and supporting a high academic track record through meticulous research practices.
- Led ETL processes and feature engineering tasks, cutting model delays by 30% while streamlining data-driven model development.
- Supported telecom churn prediction by structuring data and uncovering trends, contributing to a 10% boost in retention and detailed report preparation.
- Identified churn risk factors with targeted analyses, enabling strategic interventions that saved over \$20K annually, highlighting both quantitative skills and effective communication of complex ideas.

## PROJECTS

### Churn Prediction Model – Subscription-Based Service

**Mar 2025 - Jun 2025**

- Estimated up to 15% churn reduction by identifying high-risk customers via logistic regression on 2,200+ subscription records.
- Projected a 22% improvement in ROI through targeted marketing based on churn segmentation.
- Reduced analysis time by 30% using automated variable selection and model comparison in SAS with AIC/SC criteria.
- Achieved 72.8% prediction precision by optimizing features through engineering, variable selection, and evaluation metrics.

### EcoPack - Sustainable Packaging BI Solution

**Mar 2025 - Jun 2025**

- Designed a BI tool to track packaging cost, emissions, and compliance.
- Built interactive dashboards with filters for recyclability, timeline, and EPR compliance.
- Analyzed product data to identify inefficiencies (e.g., Product 10 costs high).
- Recommended packaging redesigns targeting \$1.7M/year in savings with a 6–9 month breakeven.

### DeConnect

**Sep 2024 - Nov 2024**

- Led an Agile team as Scrum Master to build a networking platform for DePaul students, alumni, and faculty.
- Coordinated daily stand-ups and retrospectives, optimizing team collaboration and reducing project bottlenecks, which contributed to

a 15% improvement in sprint completion rates.

- Earned faculty recognition for technical excellence, commitment, and presentation quality.

### **Multiple Object Detection, Tracking, and Motion Detection Shadow Robot Based on CV**

**Aug 2022 - May 2023**

- Focused on developing the shadow robot, which involves four important and challenging tasks: multiple object detection, object tracking, lane tracking, and motion detection.
- Published a paper on the project in the IJRTI International Journal for Research Trends and Innovation (Link).
- Presented the paper at the 5th National Conference on Innovative Global Technology Trends in Art, Design, Technology, Management, Vedic Science, Education, Architecture, and Film & Media, MIT-ADT, Pune.
- Technologies used: Computer Vision, Image Processing, CNN, YOLO Algorithm/Model, OpenCV.

### **TECHNICAL SKILLS**

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- **Data Analytics Tools:** Power BI, Tableau, Excel, MySQL, Oracle SQL, Python, R, Jupyter Notebook, Anaconda
- **Data Engineering & Databases:** Data Pipelines, ETL, Data Lake & Data Warehouse Design
- **DevOps & Workflow:** CI/CD Pipelines, Automation, Git
- **Statistical & Machine Learning:** SPSS, SAS, TensorFlow
- **Programming & Development Tools:** PyCharm, VS Code
- **Project & Business Management:** Project Management, Scrum, Agile, JIRA, Stakeholder Management, Requirements Gathering
- **Design & Documentation:** Figma, Balsamiq, draw.io, Microsoft Visio, Microsoft Office 365
- **Research & Analytical Skills:** Quantitative Analyses, Research Skills
- **Professional Traits:** Intellectual Curiosity, Learning Agility, Curiosity-driven Mindset

### **ACCOMPLISHMENTS**

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- Developed and executed comprehensive orientation programs for incoming students, resulting in a 25% improvement in new student satisfaction ratings as measured by post-event surveys.
- Coordinated a team of 20 volunteers to streamline event logistics, reducing setup and breakdown times by 30%, ensuring seamless execution of large-scale campus activities.
- Certified in GenAI, Power BI, and Agile Methodologies, completing hands-on simulations by CBRE, JPMorgan Chase & Co., and Cognizant.
- Led an award-winning final year project, selected for publication in IJRTI, an international journal, and Abhivruddhi College Journal, and showcased at the National Level Project Expo 2K23.