

# Raja Varun Kurapati

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## EDUCATION

### Ira A. Fulton school, Arizona State University (ASU)

*Master of Science, Information Technology*

Polytechnic, AZ

Jan. 2024 – Dec. 2025 (Expected)

### Amrita School of Engineering

*Bachelor of Technology, Computer Science Engineering*

Chennai, India

July 2019 – May 2023

## EXPERIENCE

### Business Data Analyst intern

*Lid Vizion, LLC*

May 2025 – Present

Remote

- Automate end-to-end content tracking workflows using Google Sheets and n8n to streamline content operations
- Design and orchestrate AI-powered pipelines in n8n for automated generation of interactive trivia for engagement projects
- Develop and deploy computer vision prototypes on Roboflow, focusing on image-based detection applications
- Build and enhance full-stack application features using React and MongoDB, improving user interaction

## PROJECTS

### Book Recommendation System | *Analyzing Big Data, Arizona State University*

November 2024

- Architected a scalable ML-powered recommendation engine processing 340,000+ literary works
- Pioneered advanced similarity algorithms achieving 92 percent match precision across 100,000+ user profiles
- Orchestrated system optimization by reducing computation time by 45 percent through efficient data processing
- Streamlined personalization logic generating 275,472 targeted book suggestions

### Real Estate Management System (REMS) | *Adv. DB Management Systems, ASU*

November 2024

- Designed a scalable relational database schema, enhancing data retrieval efficiency by 30 percent
- Implemented an audit log system, ensuring 100 percent data integrity and compliance with regulatory standards
- Developed a property categorization system, reducing search times by 50 percent and improving analysis efficiency

### Hotel Booking Demand Dashboard | *Data Visualization, Arizona State University*

October 2024

- Conducted a detailed analysis of 119,390 bookings for two hotels, facilitating the creation of a comprehensive performance dashboard
- Designed Tableau visualizations that drove actionable insights, enhancing hotel management decision-making by 30 percent
- Implemented data preprocessing in Tableau Prep Builder, enhancing data quality and insights
- Created strategic dashboards enabling data-driven decision-making for hotel management teams

### Leaf Disease Detection | *Amrita School of Engineering*

May 2023

- Developed a deep learning model using CNN to achieve 99.2 percent accuracy in predicting correct diseases
- Designed an intuitive pipeline using TensorFlow to detect diseases in tomato, potato, and corn crops across 38 classes
- Utilized a large dataset from Kaggle, consisting of approximately 87,000 images of healthy and diseased crop leaves

## TECHNICAL SKILLS

**Languages:** Python, SQL, Node JS, React, HTML, CSS, Java

**Frameworks:** React, Node.js, Flask, Tensorflow

**Interests:** Data Management, Software Engineering, Deep Learning, Data Science, Data Structures and Algorithms

**Data Analysis and Visualization:** Power BI, Tableau, Machine Learning, Image Processing

**Cloud Services:** AWS (Amazon Web Services)

## CERTIFICATIONS

AWS Certified Data Engineer – Associate (2025)

AWS Cloud Practitioner Essentials

Power BI for Data Analysts