

Pranav Rao Rebala

Boston, Massachusetts

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EDUCATION

Babson College — M.S - Business Analytics

Expected Graduation May 25

PES University — B.S. Computer Science, Specialization: Machine Intelligence & Data Science

Graduate May 24

RELEVANT COURSEWORK: Storytelling with Data(Tableau), Data Visualization, Data Analytics, Machine Learning in Business(R), Managerial Economics, Entrepreneurship Analytics, Data Structures, Python Programming, Machine Intelligence, Linear Algebra

CERTIFICATIONS: PCEP – Certified Entry-Level Python Programmer 🌟

PUBLICATIONS

1. Synthesizing 3D Faces and Bodies from Text: A Stable Diffusion-Based Fusion of DECA and PIFuHD. IEEE 9th I2CT, 2024 🌟
2. Optimal IPL Playing 11 Team Selection. IEEE 8th International Conference for Convergence in Technology (I2CT), 2023 🌟

WORK EXPERIENCE

Wipro Ltd — Intern

Jul 23 - Oct 23

- Maintained data pipelines using SQL and Azure, ensuring secure and scalable data processing with 99.9% availability via RBAC.
- Developed an interactive dashboard with React and SQL, enabling real-time data visualization and analysis, leading to 30% faster decision making.
- Collaborated with cross-functional teams to automate data ingestion processes, streamline operations and reduce manual workload by 40%.

Flutura Business Solutions — Data Science Intern

Jun 22 - Aug 22

- Processed drone flight data, including battery fluctuations and noise, using Flutura's Engineering Work Bench that led to improved data accuracy for further analysis.
- Provided key insights that contributed to simulations showing a 25% improvement in battery efficiency, 15% reduction in noise.
- Analyzed sensor data for drone failure cases using digital twin concepts, resulting in 20% decrease in maintenance costs.
- Researched and evaluated 10+ AR/VR tools, selected Vuforia, and integrated it with Unity.

PROJECTS

Blue Bikes | 🔗 [pranavrebala/BlueBikes](#)

Tableau

- Created a Tableau dashboard to analyze Blue Bikes seasonal trends and trip patterns, providing insight for inventory management and marketing. Identified key user behaviors such as peak summer ridership and geographic hotspots to optimize operations.

Noise Removal | 🔗 [pranavrebala/NoiseRemoval](#)

Matlab

- Implemented and compared filtering techniques (Median, Gaussian, Average, Hue) for denoising corrupted images, optimizing preprocessing accuracy for image processing pipelines.

CharGen - Character Generation (Capstone Project) | 🔗 [pranavrebala/CharGen](#)

Python, FReMP Stack

- Employed diffusion pipelines for 2D facial and body representations, combining DECA and PifuHD models. Using the FReMP stack to render and display a functional 3D character model on a portal that stores and displays 100+ models.

Hadoop-MapReduce | 🔗 [pranavrebala/Hadoop-MapReduce](#)

Python, Client-Server Socket Programming

- Constructed a Python-based multi-node Hadoop MapReduce framework on Ubuntu, showcasing expertise in distributed systems, socket programming, and parallel processing concepts.

TECHNICAL SKILLS

Languages: Python, JavaScript, C/C++, SQL, PHP, HTML/CSS, Deluge, R

Technologies: Tableau, Pandas, Numpy, React, MongoDB, Docker, Azure, AWS, Jupyter, Matlab, Excel

Leadership: VP of Operations — Babson Tech Club