

# Akash Babu

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<https://ashclty.is-a.dev> | <https://github.com/AshClty>

## Professional Summary

Final-year Computer Science student proficient in **React, C#, and JavaScript**, with a deep interest in identity management and enterprise grade software architecture. Experienced in leveraging **Machine Learning** and **Distributed Systems** to optimize data integrity and system performance. Eager to contribute to **Okta's** mission of enabling a secure and seamless identity experience for global enterprises.

## Education

**Bachelor of Technology in Computer Science and Engineering**  
PES University, Bengaluru, India

Aug 2022 – July 2026

## Technical Skills

**Web/Backend:** C#, .NET, JavaScript (ES6+), React, Next.js, Node.js, Express, Java, C++

**AI/ML & Data:** Python, TensorFlow, PySpark, Sci-kit Learn, NLP, Databricks

**Databases & DevOps:** MongoDB, MySQL, SQL, Docker, Kubernetes, Git, CI/CD

## Professional Experience

**Software Development Engineer Intern, VeArc Technologies** – Bengaluru, India

Jan 2026 – Present

- Architecting and refining core modules for a high-stakes **Surety Management System**, streamlining complex financial workflows using **C#** and **.NET** backends.
- Developing responsive, state-driven frontends with **React** and **JavaScript**, ensuring seamless user interactions and high-performance data rendering for enterprise clients.
- Collaborating in an Agile environment to deliver scalable software solutions, focusing on modular code architecture and optimized API integration.

**Data Science and Analytics Intern, NTT Data Inc** – Bengaluru, India

June 2025 – July 2025

- Processed and analyzed over **30M records** using **Databricks** with optimized **PySpark** and **SQL** to detect over 2K inconsistencies, improving data quality by 15%.
- Leveraged distributed data processing via PySpark to identify inconsistencies in sustainability-related project data, enabling more accurate reporting and targeted interventions.

## Projects

### Multilingual AI Voice Assistant

- Engineered an intelligent voice assistant using **React**, **Node.js**, and **MongoDB**, integrating **Gemini's LLM** and **Sarvam API** to support 10 Indian languages.
- Achieved sub-**500ms** average response time and over **95% intent detection accuracy** by fine-tuning the LLM capabilities.

### Image Captioning System (CNN-RNN)

- Engineered a deep learning pipeline in **TensorFlow/Keras** merging **ResNet50** for visual feature extraction and **LSTM** networks for sequence generation.
- Integrated pre-trained **GloVe word embeddings** (200d) and trained on the **Flickr8k dataset**, optimizing for natural language accuracy across a 5,000-word vocabulary.

## Certifications and Additional Courses

### Columbia University - Machine Learning I

- Completed comprehensive coursework on the mathematical foundations and practical applications of Machine Learning algorithms.