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## Resume

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### Balaganesh

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#### EDUCATION AND ACADEMIC ACHIEVEMENTS

**B.Tech Computer Science and Engineering at Achariya College of Engineering Technology, Puducherry** (*Expected Graduation: July 2027*)

- Placement Co-ordinator (First Year)
- Master-level coursework in C and Java
- Participated in advanced MATLAB training under guidance from NITT experts
- Maintaining the CGPA of 9.0 for the past 4 semesters

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#### Senior Secondary Education at John Dewey International CBSE School, Koliyanur

- Secured First Place in CSE Group
- Served as Student Representative for 4 consecutive years
- Organized and managed cultural and technical events

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#### TECHNICAL SKILLS

- **Programming Languages:** Python, C, Java
- **Web Technologies:** HTML, CSS, JavaScript
- **Frameworks:** Spring Boot
- **Tools & Libraries:** Pandas, NumPy, Matplotlib
- **Databases:** MySQL
- **Platforms:** Git, GitHub

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#### PROJECTS AND PRACTICAL EXPERIENCE

##### Advanced Data Analysis Pipeline (Python)

- Designed and implemented a robust data analysis pipeline leveraging Python libraries like Pandas, NumPy, and Matplotlib.
- **Enhanced data accuracy by 20%** through optimized algorithms and efficient pre-processing techniques.

##### Interactive Web Application (Java Spring Boot)

- Developed a responsive web application that streamlined user data collection and analysis.
- Integrated REST APIs to enable seamless communication between front-end and back-end services.
- Building a **Revolutionary Cricket App** that transforms match replays into interactive timelines -letting users slide through histograms to instantly watch key moments like sixes, wickets, and milestones.

### Advanced Crop and Weed Detection

- Developed a **Deep Learning-based Computer Vision model** to detect weeds in crop fields and support precision agriculture through selective pesticide spraying.
- Trained on **5000+ labeled agricultural images** to classify crops and weeds.
- Appeared for the SMART INDIA HACKATHON 2025 with our AGRICROP project.
- Increased the Deep Learning model's accuracy to over 80% using the available data.

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## INTERNSHIPS

### Artificial Intelligence and Data Analytics Intern - Edunet Foundation

(Jul 2025 – Aug 2025)

Built a AI/ML Built a Random Forest-based weather forecasting model using Python and tuned it with RandomizedSearchCV. Evaluated predictions using MAE, RMSE &  $R^2$  metrics for improved accuracy.

### Frontend Web Development - Edunet Foundation with IBM Skillsbuild

(Aug 2025 – Sep 2025)

Built a responsive single-page portfolio using HTML, Tailwind CSS, and vanilla JavaScript with smooth navigation, animated sections, interactive skill bars, and project models.

### Artificial Intelligence and Cloud Technology – Edunet Foundation with IBM Skillsbuild

(Sep 2025 – Oct 2025)

Developed an AI-powered study assistant web app using Streamlit and Google's Gemini (GenAI) APIs to explain concepts, summarize notes, and generate multiple-choice quizzes dynamically.

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## CERTIFICATIONS

- **Building Connected Systems, National Institute of Technology, Trichy (2024)**
- **Postman API Fundamentals Student Expert**
- **Celonis AI Foundations Expert**
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- Mastering C and Java, Achariya College of Engineering
- Completed the **NPTEL Courses**
  - Data Science using Python (2024-2025) during third Semester.
  - The Joy of Computing Using Python (2024-2025) during fourth semester.

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## LEADERSHIP ROLES AND EXTRA-CURRICULARS

- **Elected as Placement Co-ordinator:** Facilitated student-industry interaction and organized placement activities for peers.
- **Event and Cultural Organizer:** Led teams for event planning and management, ensuring high engagement and successful execution.

## **AWARDS AND ACHIEVEMENTS**

- **Secured First Place in CSE Group** during senior secondary education.
  - **Recognized as a proactive student leader and event organizer.**
  - **Secured the CGPA of 9.7** in the past semester.
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