

# Baratam Trivickram

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## SUMMARY

Results-driven Software Engineer skilled in full-stack development, cloud-native applications, and AI-first problem solving. Proficient in Python, Java with strong foundations in data structures, algorithms, and system design. Recognized for rapid learning and problem-solving under tight deadlines, with a proven ability to own projects end-to-end and deliver production-grade, scalable solutions using AWS and modern frameworks.

## EDUCATION

**Vellore Institute of Technology, India**

*Bachelor of Technology, Electronics and Communication Engineering*

Sep 2022 – Aug 2026

8.65/10.00 CGPA

## EXPERIENCE

**Project Intern** | [Link](#)

May 2024 – July 2024

*National Institute of Technology, Warangal*

- Engineered a machine learning model using Random Forest and PCA on the UCI Parkinson's dataset, achieving 98.7% accuracy and improving early diagnosis workflow by 30% through automated prediction.
- Conducted exploratory data analysis (EDA) and model evaluation using Python, Pandas, and Matplotlib

**Web Developer Intern** | [Link](#)

Feb 2025 – Mar 2025

*School of Electronics Engineering (SENSE), VIT Chennai*

- Collaborated cross-functionally to architect and deploy the VIT-BIS Fest 2025 website, increasing accessibility by 25% and reducing bounce rate by 40% through responsive UI/UX and performance tuning.
- Improved website loading speed by 45% through lazy loading, code splitting, and asset compression; enhanced Lighthouse performance score to 95+.

## PROJECTS

**AI-Powered Cold Email Generator** | AI/ML, Full-Stack Development, AWS | [Source](#)

July 2025 – Present

- Built full-stack AI app (React.js, Node.js, Python) using Llama LLMs, GROQ API, and ChromaDB; achieved 99.9% uptime, 60s output time, and scaled to 1000+ users.
- Developed secure RESTful API (Express.js, LangChain) with CORS, Helmet, rate limiting; deployed via CI/CD with 99.5% success rate.
- Engineered intelligent matching system using ChromaDB and BeautifulSoup with 95%+ accuracy. Enhanced UX with React Query, Framer Motion, and responsive design across 5+ devices; ensured 99.9% API availability.

**Cloud-Based Food Ordering Web App** | *MongoDB, ReactJS, AWS* | [Source](#)

Feb 2025 – Mar 2025

- Designed a responsive food ordering platform using React.js, TailwindCSS, and Vite, improving multi-device usability by 30%.
- Implemented and deployed 10+ REST APIs using Node.js and Express.js, reducing average load time by 25% and enabling real-time order tracking.

**AI-Powered Customer Analytics Dashboard** | *Python, Streamlit, Plotly* | [Source](#)

Apr 2025 – May 2025

- Built an interactive Streamlit dashboard that visualized real-time churn risk, CLTV predictions, and behavior segmentation using K-Means.
- Applied PCA and regression models to analyze high-dimensional customer data.
- Integrated Pandas Profiling for automated EDA and enabled dynamic filtering using Plotly charts.

## TECHNICAL SKILLS

**Programming Languages:** Python, R, JavaScript, Java, C++, C

**Libraries & Frameworks:** Pandas, NumPy, Seaborn, Streamlit, Plotly, TensorFlow, TailwindCSS

**Developer Tools & Platforms:** Git, GitHub, VS Code, Jupyter Notebook, Google Colab

**Databases & APIs:** MongoDB, RESTful APIs, DynamoDB (basic)

## LICENSES AND CERTIFICATIONS | [LINK](#)

- AWS Certified Cloud Practitioner | [Badge](#)
- Machine Learning Specialization by Stanford University | [Certificate](#)

## ACHIEVEMENTS

- Ranked in the **top 5%** out of **8,000+ participants** in a university-wide competitive programming selection, earning **Top Coder** recognition for exceptional problem-solving and algorithmic skills.