

# Tarun Boddeda

Citizenship: USA

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## EDUCATION (Dual Degree Program)

**Blekinge Tekniska Högskola**, Karlskrona, Blekinge County, Sweden

**Graduated : June 2026**

B.Sc, Computer Science (specialization in AI & ML)

**Andhra University**, Visakhapatnam, A.P, India

**Graduated : June 2026**

B.Tech (Hon.), Computer Science & Engineering

**GPA: 8.65 /10** ([WES](#) equivalent: 4.0/4.0)

## WORK EXPERIENCE / INTERNSHIPS

### [Independent Research](#)

**Aug 2026 – Present**

- **Research Collaborator**

- Collaborating with Dr. Prashant Goswami and other researchers on a second research paper following graduation.

### [Linux Foundation](#)

**June 2026 – Present**

- **Linux Kernel Summer Mentee**

- Contributing to Linux kernel development through a mentorship program by analyzing kernel subsystems, debugging issues, and developing/reviewing patches using standard open-source workflows.
- **Stack:** C; Bash; Linux; Git; GCC; Kbuild; QEMU;

### [Intize](#) - (Swedish NPO)

**Nov 2025 – Jul 2026**

- **STEM Tutor**

- Delivered weekly 1:1 sessions teaching web development; designed lesson plans, assigned project-based exercises, and guided debugging/problem-solving.
- **Stack:** JavaScript; HTML; CSS; Teaching; Curriculum design; Responsive design.

### [Baylogic Technologies](#)

**Nov 2023 – May 2025**

- **Machine Learning & Data Science Intern**

- Built and validated LightGBM & XGBoost models for client use cases; improved predictive accuracy through feature engineering, cross-validation. Implemented data pipelines, APIs to expose model inferences to downstream systems. Presented to stakeholders, summarized model behavior, ROC/AUC, SHAP to support decision making.
- **Stack:** Python (LightGBM, XGBoost, Flask, FastAPI); PostgreSQL; Chart.js; JupyterLite.

- **Web Development Intern**

**Aug 2022 – Nov 2022**

- Custom built Flask blog application integrated with SQLite and MySQL. Developed Python scripts for file handling and visualization, including a CSV-to-histogram web app, and deployed projects on PythonAnywhere.
- **Stack:** Flask; Python; MySQL; SQLite; Bootstrap; Git; Matplotlib; JavaScript.

### [a-hub](#) - Incubation Center @ Andhra University, India

**May 2023 – July 2023**

- **Content Writer**

- Documented meeting minutes, detailed reports, and summarized key discussions for internal and external use.
- Skill-set:** Content Writing; Report Writing; Meeting Documentation; Collaboration; Time Management.

## PUBLICATIONS

**Boddeda , T.** Ateeq, T., Goswami, P., Alawadi, S.

"Personalized Federated Learning for Player Action Prediction in StarCraft II."

Presented at the 2026 IEEE 10th International Conference on Games, Entertainment & Media (GEM), Berlin, Germany, Sept. 2026

## PROJECTS

### [Undergraduate Thesis @ Blekinge Tekniska Högskola](#)

Federated Learning–Based Player Personalization in Real-Time Strategy Games. **GRU**, **LSTM** and **Transformer** models trained centrally, and through multiple federated approaches.

### [HIF Project](#)

Worked for HIF Analytics, a Texas based client, as a part of BayLogic to deliver a machine learning project, including analysis and specifications, implementation, testing, and project deliverables. (subject to NDA).

### [Museum Ticket Booker](#) (Chatbot for museums)

**Flask**, **Python**, (**Google Maps API**, **Google Translate API**): multilingual ticket-booking webapp with interactive maps displayed.

### [CoachAI](#) (MediaPipe, OpenCV)

Application to compare human poses between coach and student, with real-time feedback, analytics, and visualizations.

## CERTIFICATIONS & SKILLS

- **[Certifications:](#)**

- **Kaggle - Data Cleaning & Intermediate Machine Learning**
- **IBM - R for Data Science & Python for Data Science**
- **Semrush Academy - Mobile SEO**
- **Google - Ads Display & Ads Search**

- **[Hackathons:](#)**

- Placed in Top Three – 1. HackAP Art & Culture 2024, 2. SIH 2024 (Internal), 3. Build Bharat through AI, 4. Virtuora 2k25
- Head Organizer – Gemini Hack Days at BTH, in collaboration with MLH ([CodeFest](#))

- **Skills:**

- Intermediate **Python**, **Java**, **Kotlin**
- GenAI: Langchain, RAG, Agentic workflows
- Frameworks: **FastAPI**, **Flask**
- DBMS: **PostgreSQL**, **MySQL**, **SQLITE**
- Linux Kernel: **QEMU**, **GDB**, **GCC**, **Bash**
- Version Control: **Git**, **Github**
- **HTML**, **CSS**, **JavaScript**, **Basic C**