# Arjun Basandrai

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## EDUCATION

**Vellore Institute of Technology** — Expected graduation 2026
*Bachelor of Technology in Computer Science and Engineering* — *CGPA: 9.38/10.0*

**Kundan Vidya Mandir Senior Secondary School** — Mar 2021 – Mar 2022
*Class XII CBSE* — *Percentage: 96.6%*

## EXPERIENCE

**Software Engineering Intern** — May 2025 – Present
*Tracelink Inc.* — *Pune, MH*

- Built an **automated UI regression testing agent** and contributed to expanding test coverage across business objects
- Developed an **automatic Release Notes generator** and helped in resolving multiple critical software issues, thus improving internal documentation and frontend stability

**Machine Learning Intern** — Mar 2024 – Jul 2024
*Talent Recruit Software Pvt. Ltd.* — *Bangalore, KA*

- Collaborated to conduct research on various algorithms for identifying and mitigating bias in Applicant Tracking Systems (ATS), resulting in a comprehensive report that improved ATS evaluation criteria
- Co-developed a **bias governance tool**, using IBM's AIF360 library, which reduced bias in AI-driven resume screening processes, leading to a 20% increase in diversity of shortlisted candidates

## PROJECTS

**Elixir Chess Engine** | *C++* — Aug 2024 – Jan 2025

- Built a strong chess engine with an ELO rating of 3500, by incorporating an Efficiently Updatable Neural Network (NNUE) for engine evaluation
- Created a custom hash table (Transposition Table) and implemented multi-threading and various optimization techniques to improve search speeds by up to 60%

**Birdly - Bird Image Classifier** | *Python, Tensorflow, Selenium, Flask API, React* — Feb 2023 – May 2023

- Designed a large-scale image classifier to accurately identify 1,300 bird species found in India, leveraging a dataset of over 1,000,000 images scraped from the Macaulay Library
- Utilized Google's Cloud TPUs to efficiently train the neural network, achieving a classification accuracy of 85% and handling large-scale data processing with optimized performance

## CERTIFICATIONS

**INE eJPTv2 – INE's Junior Penetration Tester Certification** — Jul 2025

**Microsoft Certified: Azure AI Engineer Associate (AI-102)** — Jul 2025

## LEADERSHIP

**Senior Core Committee Member** | *Codechef VIT Student Chapter* — Mar 2023 – Present

- Served on the Organizing Committee for DEVSOC'23 and DEVSOC'24, the curtain-raiser hackathons for VIT Yantra Week, each attracting over 1,200 participants
- Coordinated logistics for CookOff 8.0, VIT's largest coding competition with 500+ participants

## TECHNICAL SKILLS

**Languages**: Python, SQL, C/C++, JavaScript, Java, HTML/CSS, MATLAB, R
**Libraries and Frameworks**: Tensorflow, Keras, Scikit-learn, NumPy, Pandas, Flask API, Selenium, ReactJS, NextJS
**Developer Tools**: Git, Google Cloud Platform, VS Code, Visual Studio, Linux
**Extra-Curricular Interests**: Bird Watching, Taekwondo, Electronic Keyboard, Piano