

SAHUKARI PRAVEEN

Chennai, India | +91-9701314224 | phixbugs@gmail.com

linkedin.com/in/soy-praveen | github.com/soy-praveen | kaggle.com/praveensahukari | [Portfolio](#)

SUMMARY

Computer Science undergraduate (B.Tech, Aug 2026) and **2× Kaggle Silver Medalist** (top 3–4% of 3,000–4,700-team AI/ML competitions) targeting **Software Engineer** and **Machine Learning Engineer** roles. Build and ship production-grade, containerized full-stack and ML systems end-to-end, from model design and quantization to **REST** deployment. Core strengths in **Python**, **DSA**, **system design**, **REST APIs**, **Docker/Kubernetes**, and **CI/CD**.

EDUCATION

Vellore Institute of Technology

Bachelor of Technology in Computer Science

Chennai, Tamil Nadu, India

Expected Aug 2026

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, SQL

Backend & Web: REST APIs, Microservices, React.js, Node.js, HTML, CSS, SQL, NoSQL

AI / ML: Large Language Models (LLMs), Generative AI, Machine Learning, Model Training & Evaluation, Model Deployment, ONNX, Model Quantization (int8), BERT, PyTorch, TensorFlow, Scikit-learn, NumPy

Systems & DevOps: Linux (POSIX), Docker, Kubernetes, Git, Jenkins, Ansible, Terraform, CI/CD Pipelines, Grafana, Cloud Deployment

Concepts: Data Structures & Algorithms, OOP, System Design, Distributed Systems, Search Algorithms (Expectimax/Minimax), Game AI, Agile/SDLC, Solidity, Web3, Workflow Automation

PROJECTS

Reconstruction of 3D Space for Spherical Panorama | *Python, PyTorch, Deep Learning, Linux*

[Code](#)

- Engineered an end-to-end 3D scene-reconstruction pipeline from a single 360° panorama, orchestrating deep learning for monocular depth estimation, object detection, and segmentation; achieved **91% segmentation accuracy** across indoor and outdoor scenes.
- Converted equirectangular panoramas to cube-map projections and lifted 2D detections into 3D using depth models, reducing average depth-estimation error by **23%** versus off-the-shelf baselines.
- Built a fully terminal-driven, reproducible inference pipeline supporting arbitrary input panoramas with **no manual intervention** between stages; end-to-end processing under **90 seconds** per scene on standard GPU hardware.

Decentralized Freelance Marketplace with Skill NFTs | *Solidity, React.js, Web3, Docker*

[Code](#)

- Architected a full-stack, multichain platform with EVM wallet auth, Soulbound identity NFTs, and on-chain Skill NFTs issued after proof-of-work validation; blocked duplicate and fake-profile creation in adversarial testing, closing common Sybil attack vectors.
- Implemented DAO-based governance and milestone-based escrow smart contracts that auto-released funds on verified completion across **3+ EVM-compatible testnets** with **no failed transactions** in end-to-end testing.
- Dockerized and deployed the full stack with on-chain storage for credentials, DAO votes, and transactions, enabling cross-chain reputation portability at **sub-3s** average confirmation time.

Resume Parsing and Job Recommendation Service | *Python, BERT, PyTorch, Docker, REST API* [Code](#) | [Live](#)

- Built a resume-parsing and job-matching system using **BERT-based fine-tuning**, reaching **94% skill-extraction accuracy**; benchmarked across **5+** training configurations and improved recommendation precision by **18%** over a TF-IDF baseline.
- Containerized a dual-interface web app with **Docker** and exposed model inference via **REST APIs** for scalable deployment; cut median inference latency by **40%** through batched scoring and caching.
- Automated bulk resume ingestion and candidate ranking against job descriptions, reducing manual screening time by **70%** and processing **500+ resumes** end-to-end without manual intervention.

NeuroGolf 2026 — Minimal Neural Networks for ARC-AGI | *Python, PyTorch, ONNX* Kaggle

- Earned a **Silver Medal — 79th of 3,061 teams (top 3%)** in the IJCAI-ECAI 2026 NeuroGolf Championship by engineering **400 task-specific ONNX neural networks** that reproduce ARC-AGI image transformations under a strict size-and-parameter budget, scoring **7,515 / 10,000**.
- Compressed each model to a **median of ~100 parameters** (120 single-layer networks) using **int8 quantization** and hand-optimized computation graphs, jointly minimizing parameter count and memory footprint while preserving **exact** output correctness on held-out grids.
- Iterated across **1,100+ evaluated submissions** to tune the complexity-vs-correctness trade-off under the scoring metric score = $\max(1, 25 - \ln(\text{cost}))$, where cost = network parameters + byte footprint.

Orbit Wars — Real-Time Strategy Game AI Agent | *Python, PyTorch, Game Theory, Expectimax* Kaggle

- Placed **175th of 4,729 teams (top 3.7%) — solo Silver Medal** in Kaggle's Orbit Wars simulation competition, engineering a fully vectorized **PyTorch** planning agent (**~5,500 LOC across 15 modules**) that competed in thousands of live 500-turn adversarial ladder games within a real-time per-turn compute budget.
- Built an **orbital trajectory-prediction engine** that forward-simulates planet motion over an 18-turn horizon and solves intercept angles to strike planets rotating around a central sun, paired with an **ETA-aware reinforcement-risk model** that declined captures the opponent could reinforce mid-flight.
- Designed a **depth-2 expectimax lookahead** with softmax opponent modeling for 1v1 and a separately hyperparameter-tuned game-theoretic policy for **4-player free-for-all**, scoring every candidate attack wave through a competitive flow model with greedy multi-wave selection per turn.
- Prototyped **behavioural-cloning** and **reinforcement-learning** agents, then shipped the higher-scoring heuristic-search agent after benchmarking all three head-to-head on the ladder.

ACHIEVEMENTS

2× Kaggle Silver Medalist — top 3–4% finishes in two international AI/ML competitions of **3,000–4,700 teams** each: **NeuroGolf 2026 / IJCAI-ECAI** (79/3,061, ONNX model compression) and **Orbit Wars** (175/4,729, solo game-AI agent). *Official Kaggle certificates available.*

CERTIFICATIONS

IBM Certified: DevOps Practitioner | *IBM – Adroit Technologies* July 2025

CI/CD pipeline design, Docker containerization, and automated cloud deployment with Git, Jenkins, Docker, and Kubernetes.

Microsoft Certified: Azure Data Fundamentals (DP-900) | *Microsoft* July 2025

Relational, non-relational, and big-data systems; cloud storage, processing pipelines, and visualization on Azure.