VIVEKJOSHY

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PROFESSIONAL EXPERIENCE

Vairified Corp — **January 2024 – Present**
Data Scientist — Naples, Florida

- Built VAIR rating system for competitive player assessment.
- Created REST APIs and dashboards for real-time analysis.

Pickleball Players Network — **October 2023 – December 2024**
Data Scientist — Los Angeles, California

- Created matchmaking algorithms and skill assessment models.
- Built prototype system using Python and PostgreSQL.

Open Source Development — **2016 – Present**

- Built IRC servers and web apps on shared hosting platforms.
- Created CI/CD pipelines and infrastructure solutions.

TECHNICAL PROJECTS

BELKA Molecular Interaction Challenge — **2024**

- Won Kaggle silver medal in BELKA protein-molecule interaction challenge.
- Implemented domain adversarial training with gradient reversal.
- Designed a custom molecular data processing architecture.

SAT/SMT Solver — **2024**

- Built CDCL-based reinforcement learning system for SAT/SMT problems.
- Custom rewards created for efficient solution space exploration.

Prompt Ensemble Framework — **2024**

- Built an entropy-based framework for token evidence aggregation.
- Created logarithmic pooling for confidence scoring.

PUBLICATIONS

OpenSkill: Multi-team Rating System — **2024**
Journal of Open Source Software (DOI: 10.21105/joss.05901)

The Hitchhiker's Guide to Python — **2017**
Contributed to Common Gotchas chapter (docs.python-guide.org)

SKILLS

Technologies: PyTorch, TensorFlow, Pandas/Polars, BioPython, Ray/RLLIB, FastAPI

DevOps & Data: Git, Docker, AWS, GCP, PostgreSQL, MongoDB, TypeDB, RDF/SPARQL

Core: Deep Learning, Reinforcement Learning, Bioinformatics, Mathematical Logic

EDUCATION

Mahatma Gandhi University — **2024**
Bachelor of Science in Bioinformatics — Aluva, India

References available on request