Atheendre Ramesh

Computer Science (3rd year)

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○ github

RESEARCH EXPERIENCE

Research Intern, *Indian Institute of Technology (IIT) Tirupati*   01/2024 – Present
- Investigating scalable associative memory models and Transformer architecture integration
- Exploring Hinton-Hopfield networks for efficient contextual retrieval in long-context NLP tasks
- Contributing to research building upon 202 Nobel Prize in Physics winning neural network foundations

Prof. P.C. Deshmukh, Department of Physics

Research Collaborator, *RV University*
- Applied advanced ML concepts beyond curriculum in independent research projects
- Worked on PostgreSql, Sqlite, Mongodb.

Prof. P.G. Bhat, Founder & President, Pluma Knowledge Sol.

PROFESSIONAL EXPERIENCE

Under Deepak Koushik, Senior Director of Product Management, Salesforce,   06/2024 – 08/2024
Agile Development Intern
- Implemented DevOps practices and CI/CD pipelines using Azure DevOps
- Contributed to 20% reduction in deployment time through automated testing frameworks

Volunteer Mathematics Teacher, | *Robin Hood Army (NGO)*   03/2023 – Present
- Teaching 50+ underprivileged students with 50% improvement in test scores

TECHNICAL SKILLS

Programming
Python, C programming, Java, JavaScript, SQL

Reinforcement Learning
Deep Q-Networks, Actor-Critic Methods, Experience Replay

Tools
Git, GitHub, Jupyter, OpenAI Gym

AI/ML
PyTorch, TensorFlow, Scikit-learn, XGBoost, Deep Learning - Neural Networks

Cloud & DevOps
AWS (Lambda, S3, RDS, SCS), Docker, Serverless Framework

TECHNICAL PROJECTS

AI-Powered Loan Eligibility Engine, *Full-Stack AWS*
Github: ai-loan-eligibility-engine
- Developed scalable cloud-native platform using AWS Lambda, S3, RDS, SES
- Implemented multi-stage AI matching system with Cohere LLM Integration

- Tech Stack: Python, AWS Lambda, PostgreSQL,.

Autonomous AI Development CLI, *AI/ML Systems*
GitHub: crazy.coder
- Built enterprise-grade autonomous development system using Gemini 2.5 Pro and Qwen3- Coder 80B
- Implemented intelligent planning, code generation, autonomous execution with 100% success rate
- Integrated multi-layer safety controls with sandboxed execution environment
- Tech Stack: Python, Google Gemini API, Fireworks AI, Docker

Advanced Dueling Double DQN Game Agent, *Reinforcement Learning*
GitHub: dueling_double_DQN_dinojunip
- Implemented state-of-the-art Dueling Double Deep Q-Network with prioritized experience replay
- Achieved autonomous gameplay mastery using rew pixel input and advanced RL techniques
- Applied frame stacking, epsilon-greedy exploration, target network updates.
- Tech Stack: Python, PyTorch, OpenAI Gym, NumPy, OpenCV

Behavioral Classification ML System, *Machine Learning*
GitHub: Kaggle introvert extrovert
- Developed ensemble classification models (XGBoost, Random Forest, SVM, Neural Networks)
- Achieved 97%+ accuracy in personality prediction with advanced feature engineering
- Tech Stack: Python, Scikit-learn, XGBoost, Pandas

ACHIEVEMENTS

Research Publication
Contributing to cutting-edge Hinton-Hopfield networks research with IIT Madras faculty

97%+ Accuracy, *kaggle*
Top-tier performance in Kaggle personality classification competition

Open Source contributor
Multiple production-ready GitHub repositories with comprehensive documentation.

EDUCATION

Bachelor of Science in Computer Science, | *RV University, Bangalore, India*   08/2023 – 05/2027
Relevant Coursework: Machine Learning, Reinforcement Learning, NLP, Neural
Networks, Linear algebra, Fluid dynamics.

References

Deepak Koushik, *Senior Director of Product Management, Salesforce • Ex-Director, Myntra AI/ML Platforms Expert*
deepak.koushik@gmail.com

Prof. P.C. Deshmukh, *head of,* Department of Physics, IIT Tirupati
pcd@iittp.ac.in

Prof. P.G. Bhat, *Founder & President, Pluma Knowledge Solutions • Ex-Commander, Indian Navy*
pg.bhat@plumasol.com

SUMMARY

Computer Science undergraduate specializing in AI/ML and Reinforcement Learning with cutting-edge research on Hinton-Hopfield networks at IIT Tirupati under Prof. P.C. Deshmukh (2024 Nobel Physics collaboration). Demonstrated expertise in autonomous AI systems and production-grade software engineering with 97%+ kaggle competition accuracy accuracy achievements.