ANANTH RADHAKRISHNAN

portfolio

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EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO

San Diego, CA

Master of Science in Computer Science & Engineering | Teaching Assistant for CSE-291, DSC-232, DSC 191

Sep '23 - Mar '25

Coursework: AI Probabilistic Learning, Recommender Systems, Algorithm Design & Analysis, Unsupervised Learning, NLP, LLM

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Kharagpur, India

Bachelors of Technology (Honors) in Instrumentation Engineering

Jun '17 - Jun '21

Minor in Computer Science & Engineering

Coursework: Algorithms, ML, AI, OS, NLP, Image Processing, DL,Information Retrieval, Computer Networks, Computer Architecture

SKILLS

Programming Languages & DB: C++, Python, Java, Golang, SQL, MongoDB, Redis, Neo4j, JavaScript, Node.js, HTML, CSS, C **Libraries & Frameworks:** TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, Databricks, Docker, Git, REST, AWS, Teradata, Insomnia

WORK EXPERIENCE

THREDUP - SOFTWARE ENGINEER INTERN

Oakland, CA

AI Software Engineer | Data Engineering Team

Jun '24 - Aug '24

- Built a custom KnowledgeGraph (KG) & taxonomy leveraging ThredUp's inventory data, improving query efficiency by 35%
- Implemented a custom PageRank algorithm on the KG identifying influential nodes & utilized FastRP to create vector embeddings
- Leveraged KG insights into a dynamic pricing model, improving pricing accuracy by 25% & purchase conversion rates by 20%
- Integrated SuperLinked for dynamic vector subspace creation, boosting personalized search & recommendations by 40%

BARCLAYS - SOFTWARE DEVELOPER

Chennai, India

Full Stack | Dcypher Team

Aug '21 - Jul '23

- Developed an application that automates masking, tokenization & migration of data from PROD to Non PROD environment
- Designed a Python package to incorporate teradata to SQL server file transfer, increasing app utilization by 55% within Barclays
- Integrated event notification, masking tools that were used by 60+ teams(1K+ users) to monitor & customize their data copy tasks
- Refactored the entire codebase using OOP principles & optimized the code by revamping the application using Python, MySQL Backend | CloudIT Team
- Spearheaded the development of CloudIT application, a service used by 875k live consumers, using Java, Spring Boot & MongoDB
- Developed 3 REST APIs & optimized data ingestion process using multithreading, reducing response time of upload service by 40%
- Executed legacy code migration of CloudIT, improving code maintainability by 60% and boost in service performance by 20%
- Collaborated with multiple product teams and handled 30% of Barclays Document Journeys in PROD through Jenkins & Docker

BARCLAYS - GRADUATE INTERN

Pune,India

ML | AI Automation Team

Jun '20 - Jul '20

- Developed an AI-based Universal Test Automation tool using ML, enabling robust script-less large-scale testing & reducing costs
- Applied NLTK techniques to pre-process documents, achieving 93% accuracy in early testing improving field classification accuracy

PROJECTS

Graduate Student Researcher - Graph Attention Network (DL) for Brain Mapping

UCSD | Oct '23 - Jun '24

- Developed a novel GAT network to investigate the spatial dependencies & correlation between different EEG networks & emotions
- Designed a multimodal transformer architecture and achieved accuracy of 82% in classifying Opioid Misusers from healthy subjects

Gitwise - LLM based VSCode Extension

UCSD | Apr '24 - Jul '24

- Created Gitwise, a TypeScript-based VS Code extension utilizing LLMs to deliver real-time summaries and provide code insights
- Engineered to enhance productivity of user through instant display of code changes, git diffs, PR details & conversations topics

Multimodal BPR for Cold-Start Problems

UCSD | Sep '23 - Dec '23

- Developed Multimodal-BPR recommender system using images & texts addressing the cold-start problem for enhanced accuracy
- Explored diverse fusion techniques to improve scalability for broader dataset- achieved 0.87 AUC score while testing on Goodreads

Travel Planner - Optimized Path Selection

UCSD | Jan '24 - Mar '24

• Developed a custom path selection using DP & Dijkstra's with tree pruning, achieving a 92% runtime reduction for complex inputs

Heuristic Guided Search Algorithms - A*

IIT KGP | Jan '20 - Apr '20

Developed a C++ library to perform A* algorithm & solve search problems in OR graphs. Compatible with all problem descriptions