

PRIYARANJAN PATTNAYAK

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Accomplished AI Researcher and Senior Principal Data Scientist with 12+ years of global experience in building and scaling enterprise ML systems, including multimodal and generative AI applications. Proven track record leading high-impact AI initiatives saving \$100M+ in revenue at Oracle Cloud Infrastructure. Active contributor to the global research community through publications, patents, peer reviews, and invited talks.

PUBLICATIONS, PATENTS and HIGHLIGHTS

- I have 20+ patents/papers filed/published with US PTO/conferences/journals & am constantly engaged in the academic and scientific community for **peer-reviewing** research papers in prestigious journals and conferences like **ACL ARR, NeurIPS, KDD, CVPR and IEEE** etc; Regular mentor and **judge** for international hackathons & AI innovation challenges
- Led development of CoT-based GenAI global solution for Oracle Cloud, projected to save \$100M+ annually
- Frequent **speaker and presenter** at top-tier venues: NAACL (2025), CISSE Colloquium, WCSC, AI Product Podcasts etc.
- Actively engaged in **guest lecture in US Universities**, and research to advance AI in the scientific community
- Oracle bar-raiser, defined DS/ML hiring standards; **conducted 100+ interviews, mentored 20+ interns and ICs**
- Research in AI safety for low-resource languages has influenced design of trust systems in AI curriculum contexts; Member of **prestigious Sigma-Xi honors**
- NAACL 2025 presentation on GenAI support workflows reached 5,000+ global attendees from academia and industry

PROFESSIONAL EXPERIENCE

Oracle Cloud Infrastructure, Seattle, USA

Jul 2018 – Present

Senior Principal Data Scientist ~ OCI AI

- Shaped the team charter, internal processes & created interviewing case studies; interviewed ~80% of all candidates for the team; AI head for VP org > 545 members.
- Managed a team of 15 data scientists/engineers to successfully delivering critical ML projects under tight deadlines & worked as a point of escalation for cross-org initiatives that have generated/saved \$100M+ in revenue for OCI.
- Led a team of scientists who built a generative AI (RAG) based self-serve solution for OCI Customers that is projected to save ~50M in revenue, while improving response times for customers.
- Collaborated with teams across US, India, and Europe to leverage ML initiatives; led several high visible ECARs (Engg community architecture reviews); presented new initiative to OCI leadership for securing funding for org size > 1000.
- Conducted 100+ interviews as OCI bar-raiser & established interview standard/questions within the org for hiring ICs/Ms.
- Designed a fully managed cloud ML Platform for OCI tech ops & tooling team to leverage NLP/ML in auto-resolving common issues; reduced ticket clusters by 80%.
- Generated root cause analysis (RCA) topics for problem tickets in OCI; utilized NLP (LDA, NLTK & Gensim) to extract topics from unstructured data (>1MM lines); identified themes & suggested recommendations to simplify problem processes.
- Utilized time-series analysis (ARIMA) to predict the incoming tickets for customer notifications; helped in accurate on-call & weekend resource allocation, increased ticket hygiene from 70% to >95% & reduced TP90 time to notify customers..

PROCOGIA, Seattle, USA

Apr 2018 – Jun 2018

Data Science (@ T-Mobile)

- Designed a RNN based approach to detect contextual network anomaly in T-Mobile's US coverage.
- Mentored summer interns, defined scope of their work & headcount allocation to model development/maintenance.

Tata Consultancy Services (TCS), Bangalore, India

Lead

Information Management (*Client – American Express*)

Sep 2013 – Aug 2017

- Led a team to deploy time series forecasting model in R for capacity planning of SQL Server, Azure SQL & MongoDB.
- Managed re-engineering initiative to minimize SAN and resource utilization in SQL Server databases and data warehouses, which ended up saving 85000\$ for IM in 2015; Created dimensional data models for data warehouse systems.
- Awarded with TATA Champion Badge for creating a body of knowledge for MongoDB; helped the Centre of Excellence (CoE) in setting up RA (Reference Architecture) for MongoDB.

EDUCATION

University of Washington, Seattle WA

Jun 2018

Master of Science in Information Systems – Graduated with Honors (Top 5%)

(GPA: 3.84/4.00)

Biju Patnaik University of Technology - College of Engineering and Technology

Jul 2013

Bachelor of Technology – Electrical Engineering

(GPA: 3.95/4.00)