

PRIYARANJAN PATTNAYAK

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A data analytics professional aimed at helping businesses grow by drawing insights & creating compelling stories from data. Effectively showcased analytical, leadership and communication skills through various roles and industry projects.

PROFESSIONAL EXPERIENCE

Oracle America Inc, Seattle, USA

Jul 2018 – Present

Data Scientist, OCI Operations

- Defined an initial framework for Exec Scorecard; built data model and scorecard used by 260+ users & ops leadership team to make meaningful decisions; reduced % of problem tickets meeting SLA, from 24.1% to 3.7% in 4 months.
- Generated root cause analysis (RCA) topics for problem tickets in OCI; utilized NLP (LDA, NLTK & Gensim) to extract topics from highly unstructured textual data (>1MM lines); pre-processed the data and compared LDA on tf-idf against bag of words & used topic coherence to find optimal number of RCA topics; identified recurring themes in RCA and suggested recommendations to simplify problem ticket processes.
- Analysed unplanned outages and its impact on OCI's top customers, correlating downstream notifications with incidents & revenue (ARR/ACR); identified gaps in comms & estimated downtime for under-radar outages like hypervisor reboot.
- 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. Also, built reports/dashboards for several OCI teams to provide valuable data insights about ops engagement/processes.
- Designed and implemented a mission-critical data pipeline from disparate Oracle systems into OCI in 2 weeks; provided leadership (SVP/VP) with meaningful L1/L2 support and operational insights.
- Architected and implemented major ETLs to expand operations data lake capabilities and facilitate BI & Reporting; used PySpark and spark structured streaming to build end-to-end custom ETL apps, deployed using Kubernetes cluster.
- Shaped the team charter, change processes & created interviewing case studies; interviewed ~80% of all candidates for the team; defined the SOW for summer intern's MVP projects and mentored them.

PROCOGIA, Seattle, USA

Apr 2018 – Jun 2018

Data Scientist (@ T-Mobile)

- Developed Qlik dashboards to provide insight & track KPIs for core switching network of T-Mobile's US operation.
- Interfaced with key stakeholders to build and maintain data models for several nodes of the T-Mobile's primary core

Tata Consultancy Services (TCS), Bangalore, India

Database & Reporting Lead (Systems Engineer)

Information Management (Client – American Express)

Dec 2014 – Aug 2017

- Created and deployed ER and dimensional data models in production/QA databases and data warehouse respectively.
- 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.
- Deployed a reporting dashboard to monitor real-time database and node level statistics using Ops-Manager.

Reference Architecture & Engg. (Client – American Express)

Sep 2013 – Jun 2017

- Implemented time series forecasting model, using R, for database capacity planning of SQL Server, SQL Azure & Mongo.
- Spearheaded 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.
- Automated SQL Server database turnover workflow using ETL (SSIS) & SSRS, saving 600+ hours of effort every year.

RELEVANT PROJECTS

Intruder Detection System using web-session tracking (Ensemble, Feature Engg & Python) [Github](#) Mar 2018 – May 2018

- Built a machine learning model to catch the intruder based on sequence and time spent on each webpage in a session.
- Created a tf-idf sparse matrix and engineered six new features to improve prediction accuracy.

NAVAZON Consulting, Data Analyst (Web Analytics, SEO, Digital Marketing & Python)

Feb 2018 – June 2018

- Recommended SEO and strategies to improve vendor customer conversion rate from 2% to 5%, using clickstream data, regression and digital marketing campaigns in Amazon Marketing Services(AMS).

Blockchain based Voting System (Blockchain, Python & AWS) [Github Project](#)

Sep 2017 - Dec 2017

- Created two distinct blockchains in Python: One for voter registration and other for primary ballot

EDUCATION

University of Washington, Seattle WA

Jun 2018

Master of Science in Information Systems, Data and Analytics

(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)

TECHNICAL SKILLS

- **Programming:** Python, PySpark, R & SQL
- **Tools:** Zeppelin NB, Jupyter, Git & Pycharm
- **Concepts:** Machine Learning, Applied Statistics, Web Analytics, Time Series Analysis, Data Engineering & Modelling
- **Data Visualization:** OBIEE/OAC, Tableau & QlikView
- **DBMS & Infra:** ADW, SQL Server, OCI & Kubernetes