PRIYARANJAN PATTNAYAK

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EDUCATION

University of Washington, Seattle WA   Expected: Jun 2018
Master of Science in Information Systems, Data and Analytics   **(GPA: 3.89/4.00)**

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, R, Spark, SQL & C#
- **Microsoft Suite**: SSMS, SSIS, SSRS & Visual Studio
- **Data Visualization**: Tableau, Seaborn & Excel
- **Database Skills**: SQL Server & MongoDB
- **Tools**: RStudio, Jupyter Notebook, Pycharm, git, Weka & Gretl.
- **Concepts:** Regression Analysis, Clustering, Classification, Time Series Analysis & Association Rule Mining
- **Courses and Certification**: Machine Learning A-Z™: Hands-On Python & R in Data Science (Udemy), M102: MongoDB for DBAs (MongoDB Univ.), Python A-Z™: Python for Data Science with Real Exercises (Udemy)

RELEVANT PROJECTS ○

Bank Customer Churn Modelling (Linear Classifiers, R & Excel) View Project   Dec 2017 – Jan 2018
- Created a machine learning model to predict if a customer will exit the bank using logistic regression.
- Eliminated correlation between independent and derived variables by using variance inflation factor (VIF).
- Compared model performance using cumulative accuracy profile (CAP) curve to avoid accuracy paradox.

Predicting Domestic Auto Sales in US (Time Series Analysis & R) View Project ○   Nov 2017 - Dec 2017
- Implemented SARIMA on auto sales data from US Bureau of Economic Analysis to predict sales for 2018.
- Concluded that auto-arima under-differenced the series and compensated for it by adding a MR component.

Blockchain based Voting System (Blockchain, Python & AWS) View Project   Sep 2017 - Dec 2017
- Created two distinct blockchains in Python: One for voter registration and other for primary ballot.
- Deployed the blockchains in AWS using EC2 and Flask application framework.

Twitter Sentiment Analysis (NLP & R) View Project   Aug 2017 - Dec 2017
- Scraped tweets on flagship smartphones and derived sentiment score using bag of words from Hu Liu lexicon.
- Visualized the data in R (Word Cloud and Term Document Matrix) to find frequent terms and associations.
- Performed hierarchical clustering to find related words(Dendrogram) and underlying theme in each cluster.

Automating Bank's Loan Approval (Machine Learning, R & Weka)   Sep 2017 - Nov 2017
- Built a machine learning model that can automate the loan approval process with an accuracy of 96.2%.
- Compared and concluded that a Naïve-Bayes model can't beat the pruned C4.5 decision tree.

Recommendation for Digital Collaboration at PATH, Seattle (Tableau) View Project   Jun 2017 - Aug 2017
- Mined survey data (1K response) to find user demographics, preference, tool popularity and satisfaction.
- Visualized data(Tableau) and proposed tools that break information silo and bridge communication gap.

RELEVANT PROFESSIONAL EXPERIENCE

TATA CONSULTANCY SERVICES (TCS), Bangalore, India
Database Developer and Administrator

Information Management (Client – American Express)   Dec 2014 – Jun 2017
- Led database maintenance automation and saved the database operation team a combined 450+ hours/month.
- Awarded with TATA Champion Badge for creating a body of knowledge for MongoDB; helped the Centre of Excellence (CoE) in setting up the 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 a time series forecasting model, using R, for database capacity planning and SAN addition.
- Analysed the load on each server node and created SSRS reports to prevent instance overloading on nodes.
- 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 SSIS & SSRS, saving 600+ hours of effort every year.

LEADERSHIP & AWARDS

- Star Performer of the Year- Awarded by TCS for leading value-added initiatives.
- Manager at CoMotion, University of Washington - Led two start-up team's effort towards product commercialization.