JYOTI RANJAN ROUT

Expertise (Data Science, AI, ML, Big Data, AWS)

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I am a highly motivated and passionate professional with expertise in applying machine learning concepts, Artificial Intelligence and statistical analysis to provide data-driven, action-oriented solutions to challenging real-world business problems.

Professional Summary

- I have a total **IT Experience** of **12** years into Data Science, Artificial Intelligence, Machine Learning, Big Data Technologies and Full stack Web Development.
- Experience of working on Machine learning projects using Python and Python Libraries like NumPy, Pandas, Sci-Kit Learn, Matplotlib, Seaborn, Bokeh etc.
- Working knowledge of generalized linear models, SVMs, Logistic Regression, Decision Trees, ensemble models, Clustering, predictive modeling, Time Series, Recommender systems, reinforcement learning ,CNN, RNN and other related machine learning algorithms.
- Experience in the use of current machine learning libraries such as Keras, TensorFlow, NLTK, Spark ML etc.
- Experience using Cloud-based ML platforms like AWS Sagemaker, Azure ML, Cloud-based data storage like S3, Redshift, DynamoDB etc.
- Experience with distributed data processing technologies like Hadoop, Spark, Kafka, Flume etc.
- Deep understanding of data engineering - data pipelines, storage, warehousing, ETL, etc.
- Experience in developing UI for Data Visualization with D3.js and Angular.
- Good experience of designing and developing Full Stack Web Applications using Python, Django, Flask, ASP.Net Core, Angular,HTML5, Bootstrap, C#, JavaScript, SQL SERVER.
- Managed software project life cycle (requirement analysis, Functional/Design Specifications, HLD, LLD & Test plans designing).
- Strong experience in domains like Banking, HealthCare, Retail and Manufacturing.

Employment History

Total IT Experience: 12 years.

Senior Software Engineer	**GE Digital**	▦ Aug-2017 – Till Date
Technical Lead	**Mindteck India**	▦ Jul-2016 – Aug-2017
Assistant Consultant	**Tata Consultancy Services**	▦ Sept 2007 – Jul 2016

Certification/Courses

- **Master's Program on Artificial Intelligence , Simplilearn**
- (MCTS)Microsoft .NET Framework 2.0-Application Development Foundation(70-536)
- (MCTS)Microsoft .NET Framework 2.0 - Web-Based Client Development(70-528)

Education

🎓 Bachelor Of Engineering (**Computer Science & Engineering**)   Mark %

Biju Patnaik University of Technology (**BPUT**), Odisha   📅 2001-2005   65

10+2 Council of Higher Secondary Education, Odisha,   📅 1997-1999   70

10th   Higher Secondary Education, Odisha   📅 1996-1997   80

Technical Skills

- **Machine Learning**: Regression, Classification, Clustering, Decision Trees, Natural Language Processing, Recommender System, predictive modeling, reinforcement learning , ANN,CNN, RNN.
- **ML Toolkits**: Spark (MLlib), AWS Sagemaker, Azure ML, Keras, TensorFlow, NLTK
- **Statistics**: Probability, Distribution, Hypothesis Testing, Regressions, Time Series Analysis
- **Programming languages**: Python(SciKit-Learn, Pandas, NumPy), Scala, R, Java, C#
- **Database**: SQL Server, MongoDB, Cassandra, HBase
- **Big Data**: Spark , Hive, Hadoop, Kafka, EMR , HDInsight
- **Visualization**: Python (Matplotlib, Seaborn, Bokeh), Django, Flask, D3.js
- **Web UI:** JavaScript, Angular, JQuery AJAX, HTML 5, CSS3,Bootstrap, SAAS, LESS, TypeScript, NodeJS
- **Microsoft Technologies:** ASP.Net MVC, ASP.NET Web API, ASP.NET Core, Entity Framework.

Work Experience

Lead   – Data Science, AI & ML   📅 Aug-2017 - Current

GE Digital (APM Product Development) – Bengaluru, India

- Conducted data preprocessing, anomaly detection using Python Libraries, built the model using deep neural networks and scikit-learn.
- Created machine learning models with Python and scikit-learn to predict quality of product based on manufacturing data with 92% accuracy.
- Predictions for Remaining time to failure of a plant asset using LSTM.
- Created machine learning models using LSTM network to predict total energy usage of plants with 97% accuracy.
- Implemented infrastructural components for data visualizations by using Python Django , Flask ,Angular and d3.js

Lead   – Data Science, AI & ML   📅 Jul-2016 - Jul-2017

Hewlett Packard Enterprise – Bengaluru, India

- Conducted data preprocessing, and outlier detection using python libraries; built the model using Python scikit-learn and deep neural networks.
- Developed prediction algorithm using advanced data mining algorithms to classify similar products together to develop sub-markets; each zip code was divided into submarkets using advanced data mining techniques.
- Applied logistic regression model to product maintenance records to predict product sales based upon product usage and type of maintenance.
- Created customized reports using d3.js and Angular for data visualization.

Senior Developer – Data Science & Web Development   ▦ Nov-2011 - Jul-2016

Walmart Store Inc. – Bentonville, USA

- Optimized factors for sales conversions and designed an algorithm for deal recommendations for daily deals.
- Development of UI components and modules using AngularJS and HTML5.
- Developed RESTful web services for secure communication with server from client side in C#.
- Writing script for table, views, constraints, complex stored procedures and user defined functions in SQL server.

Developer – Full stack Web Development   ▦ Aug-2008 – Oct-2011

Johnson & Johnson– Kolkata, India

- Created Web pages using JavaScript with Ajax web service method call and page methods.
- Developed business objects, collections and implementation of business validation rules.
- Worked on views, common shared views for user interface using JQuery and JSON.
- Writing script for table, views, constraints, complex stored procedures and user defined functions in SQL server.

Developer – Full stack Web Development   ▦ Sep-2007 – Jul-2008

Citi Group   – Kolkata, India

- Created Web pages using JavaScript with Ajax web service method call and page methods.
- Design and development of master pages, content pages and user controls custom controls.
- Used various Data-Bound controls like Grid View, List View to display the data to the end users.
- Writing script for table, views, constraints, complex stored procedures and user defined functions in SQL server.

Personal Profile

Date of Birth : July 10th 1982
Nationality   : Indian
Marital status : Married
Languages   : English, Odiya, Hindi