NIPUN BHALLA

IBM CERTIFIED DATA SCIENCE PROFESSIONAL & AWS MACHINE LEARNING SPECIALIST

Phone:	Email:	Website:	Location:
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• Data scientist with 3 years of relevant, and 5+ years of overall industry experience in IT and programming
• Currently translating business & technical requirements from data science & machine learning problems to software applications
• Experienced in Big Data Analytics and Predictive Analysis, as well in system architecture design including ingestion pipelines and advanced data processing with an understanding of NoSQL and distributed computing tools

TECHNICAL LANDSCAPE

Proficient	▪ Python 3	▪ Pandas	▪ Apache Airflow	▪ Cassandra
	▪ SciKit Learn & SciPy	▪ NumPy	▪ Django	▪ AWS Glue
	▪ PySpark	▪ MatplotLib/Seaborn	▪ Flask	▪ QuickSight
	▪ Keras	▪ SQL - Postgres	▪ REST Web Services	▪ AWS S3

Exposure with: C++, TensorFlow 2, Numba, MySQL, MS SQL Server, Docker, Git, Agile Methodology, Statistical analysis, AWS(Sagemaker, EC2, S3, Kinesis, Athena & RDS)

WORK EXPERIENCE

Data Scientist
SEP 2018 – PRESENT

Eye Care Leaders (Part of Global Growth) | Noida

- Lead the development of myCare Analytics Cloud, also formulated and integrated Forecasting, and Anomaly Detection models along with designing creative visualizations for the same
- Replaced Google charts with Quicksight and implemented a ETL pipeline for the upgraded dashboards; the cumulative impact resulted in visuals loading 80% faster for the same amount of data
- Leading the dev of a model for *predicting clinical events* using **LSTM**, the accuracy of the current model is 71%
- Directing the development of feedback collection and **sentiment analysis** server-less web service
- Collaborated with SMEs in the field of ophthalmology for feature selection in ML models; also presented models to managers and non-technical stakeholders
- Defined 14 hypotheses from the common datasets across ECL's products and expanded development for 3 based on already ongoing research in the public domain: - Predicting Clinical Events via RNN, Modeling of Glaucoma Progression, Predicting Visual Acuity in Patients Treated for Neovascular Age-Related Macular Degeneration
- Formulated Patient Growth Forecasting model which correctly forecasted patient growth for 2 clients for 1 year in weekly increments with variance under 10%
- Co-architected local data-warehousing solution on Cassandra with ingestion from AWS RDS resulting in 20% cost saving over the previous solution

Beyond the role: Devised web-based CICD and automation suite using Django for Analytics' client onboarding workflow while accounting for customizations; resultant development time was 50% of DevOps' quotation for Jenkins implementation and suite reduced time for client onboarding process from 8-12 hours of manual work down to 5 minutes

ADDITIONAL EXPERIENCE

Summer Trainee
JUN 2017 – JUL 2017

Weapons and Electronics Systems Engineering Establishment (WESEE)
Indian Navy, Ministry of Defence, Govt. of India | New Delhi

Co-Founder and CTO
FEB 2016 – MAY 2017

Giftomise.com // E-Commerce Start-up | New Delhi

Head – Technical
SEP 2015 – JUL 2016

YaarBazaar.com (YaarBazaar Pvt. Ltd.) // E-Commerce Start-up | New Delhi

SCIENTIFIC PUBLICATIONS

Smart Reflect: An Application Nonspecific Passive Information Display Device for Public and Private Spaces
International Journal for Research in Applied Science & Engineering Technology

CERTIFICATIONS

Python Data Science Professional Certificate — **IBM**
AWS Certified Machine Learning - Specialty (MLS) — **Amazon**
Essential Math for Machine Learning — **Microsoft**

EDUCATION

Post Graduate Diploma in Applied Statistics (perusing) — 2021 – Present
Indira Gandhi National Open University, New Delhi

Bachelors in Technology (Electronics and Communication) — *Batch:* 2014 – 2018
Guru Gobind Singh Indraprastha University, Delhi

PROJECTS

SMART MIRROR - Biometrically authenticated display device with availability and attendance system for departments and organizations; engineered using Raspberry Pi 3 using Python 3, Node.js, and MySQL

DATA DIODE USING RASPBERRY PI FOR SECURE DATA TRANSFER
Constructed using Raspberry Pi and modified RJ-45 connector with software written in Python; was cheaper by a factor of 20 when compared with commercially available solutions

AWARDS AND ACHIEVEMENTS

- Awarded 2nd Position at University Major Project Competition, Department of ECE for Smart Mirror
- Organizer of **TEDx BPIT***, 2017-2018*
- Founding Member and elected Webmaster of the student branch of **IEEE BPIT**
- President of **Entrepreneurship-Cell**, BPIT, 2017-2018
- Member of the Organizing Committee and Core team for College fest from 2016-2017