

SANYUKTA BALUNI

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EDUCATION

Pennsylvania State University, Main Campus, USA

May 2018

Secured a Bachelor of Science in Computer Engineering.

Relevant Coursework: Object Oriented Programming, Database Management System, Data Structures, Discrete Mathematics, Calculus with Analytic Geometry, Statistics

PROFESSIONAL EXPERIENCE

Accenture Solutions Private Limited, Mumbai, India

Feb 2019 - Present

Analytics Associate

Book Publishing Client - Supply Chain Analytics

- Designed an inventory management tool to compute re-order quantity, safety stock and excess stock based on multiple parameters using excel and VBA macros and deployed it in Latin America and Turkey.
- Performed segmentation of different Stock Keeping Units (SKU) based on past sales using Time Series forecasting which increased accuracy approximately by 50%.
- Recorded KPIs to drive operational improvement, ensure business benefits and customer satisfaction.
- Developed multiple dashboards to represent client business and performed automation using Python.

Automotive Client - Warranty Analytics

- Developed complex SQL queries to retrieve data from AWS Redshift and automated the process using Python (psycopg2, pandas and numpy) and R.
- Worked on AWS for integration and scheduling jobs for seamless data flow using services such as Lambda, Glue, S3 and Step functions.
- Creating Quality Audit to highlight incorrect claim payment by an assessor by identifying systematic error patterns and thus assisting in cost saving for the client.

Alpha Alternatives, Mumbai, India

Oct 2018 – Jan 2019

Quantitative Analyst Trainee

A multi asset management firm which creates sophisticated investment solutions for proprietary and client capital.

- Researched and analyzed market trends to enable modelling decisions and analyze new models and programs.
- Implemented complex quantitative models using software such as Amibroker and Python.
- Employed trading indicators to gauge signals of buying and selling for equities and commodities and worked closely with traders to assist them in positioning for a favorable trade.

ACADEMIC PAPERS AND PROJECTS

Investigating Strategies of Pre-Tenure Women Engineering Faculty to Overcome Microaggressions in Classroom

- Conducted a semi-structured and in-depth interview with women faculty in the US to investigate experiences and strategies that junior women faculty in engineering disciplines use in the classroom to overcome student bias.
- Carried out qualitative analysis of data through constant comparative methods to derive results.
- Co-authored and published a paper on the same in October 2017 IEEE Frontiers in Education Conference, Volume 1. DOI: 10.1109/FIE.2017.8190636

Diabetes Predictor

- Created a machine learning model to predict diabetes in a patient based on physiological factors
- Implemented multiple machine learning algorithms and carried out GridSearch CV to find apt algorithm with optimal parameters and achieved an accuracy of 99%.
- Deployed a web application using Flask on Heroku platform to predict diabetes in patients.

TECHNICAL SKILLS

- **Programming languages:** Python (pandas, numpy, matplotlib, scikit-learn), R, C/C++, SQL, HTML/CSS
- **Cloud Platform and Other Technologies:** Amazon Web Services, Advanced Excel, Oracle Business Intelligence Application, Logility

EXTRA CURRICULAR ACTIVITIES

- Completed a certified course 'Python for Everybody' offered by University of Michigan from Coursera in Jan 2019.
- Acquired a certification, 'MySQL for Data Analytics and Business Intelligence' from Udemy in June 2020.
- Mentored school students on new emerging technologies such as 3D printers, IoT sensors, Augmented Reality and Virtual Reality by providing hands on experience at Explorium, Mumbai, India from July 2018 - Sep 2018.
- Represented as the Web Coordinator and Treasurer at Association of Women in Computing, Penn State University, USA, from August 2015 – May 2018. Attended the Grace Hopper conference (largest gathering of women technologists) held at Houston in October 2016.
- Participated in 'THON' - largest student run philanthropy in the world. Looked after event safety and security as well as participated in pre-THON fundraisers, Oct 2015 - Feb 2016.