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Data Scientist Profile

Technically minded and detail-oriented professional with progressive experience leading all facets of data migration and system maintenance/development within academic sector. Track record of managing multi-discipline research, formulating project goals, researching methods and test parameters. Background in reviewing, cleansing, transforming, and modelling data for recovery and informed decision-making. Instrumental in analysing and delivering quantitative and qualitative research based solutions that reduce redundancy, improve accuracy and efficiency, and achieve organisational objectives. Proven ability in delivering support to expand existing data delivery platforms and creating data systems that optimise data management, capturing, and quality. Demonstrate ability to prepare detailed documents and reports, while executing complex internal and external data analyses tasks. Articulate and multilingual communicator with remarkable proficiency in English, Spanish, Italian, and Russian with basic knowledge of German.

Strategic Planning and Implementation / Machine Learning / Project Management

Data Modelling & Analysis / Risk Assessment & Mitigation / Data Analytics & Data Science

Virtualisation Technologies / Requirement Gathering / Cross-Team Collaboration

Experience Highlights

National Institute for Nuclear Physics Postdoctoral Researcher

2018-Present

Perform data mining, analysis, synthesis, visualisation, and data conversion into reportable formats for presentations, reports writing, and disseminate findings. Determine research methodology by collecting and evaluating data to ensure completeness and accuracy of information. Develop and implement extensive research plans and deliver detailed reports for informed decision-making. Ensure compliance with protocol and overall objectives.

Selected Contributions:

- Utilised Python to analyse codes, apply reverse engineering, and innovate in ICT for information extraction and data processing.
- Maintained accurate records of interviews, safeguarding the confidentiality of subjects, as necessary.

University of Genoa, Physics Department, Genoa, Italy Ph.D. Student

2014-2018

Performed theoretical studies of nuclear reactions, such as transfer reactions, single and double charge exchange reactions, calculations of matrix elements for the study of neutrinoless double-beta decay. Delivered effective training and mentoring to new Ph.D. and Master's internship students on the laboratory experimental equipment as well as explained the science and the physics of the research work conducted in the department.

Selected Contributions:

- Analysed large, complex datasets and identified meaningful patterns that led to actionable recommendations.
- Developed the Heavy-ion double-charge-exchange formula and found its relationship with neutrinoless double-beta decay.

University Research Assistant (2015)

Evaluated test data, prepared articles and scientific papers, performed scholarly and qualitative research, as well as published academic research. Delivered effective training and mentoring to new Ph.D. and Master's internship students on the laboratory experimental equipment as well as explained the science and the physics of the research work conducted in the department. Conducted meetings with supervisor to plan for class and research related assignments. Assisted in preparation of all educational and training workshops and evaluation strategies.

Selected Contributions:

- Led the culmination of the software to calculate nuclear wave functions by using algebraic models such as Interacting Boson Model
- Executed data analysis by utilising python and neural networks for classification of nuclei and developed all programs needed for future research.

Additional Experience:

- **Software Developer** at LUFAC S.A de S.V / RED Risk Engineering + Development
- **University Research Assistant** at Texas A&M University and Cyclotron Institute
- **University Teaching Assistant** at The National Autonomous University of Mexico
- **Systems Technician, Network Administrator** at GNP SEGUROS
- **ICT Network Technician** at University Autonomous Juarez of Tabasco

Education & Credentials

Ph.D. in Physics (2014-2018)

University of Genoa, Physics Department, Genoa, Italy

Master in Nanoscience (2011-2013)

The Juarez Autonomous, University of Tabasco

Bachelor in Physics (2005-2010)

The National Autonomous, University Of Mexico, Mexico City, Mexico

Certifications:

- AWS Certified Data Analytics – Specialty
- AWS Certified Solutions Architect – Associate (2020)
- AWS Certified Machine Learning – Specialty
- AWS Certified Cloud Practitioner
- IBM Applied AI Professional Certificate
- IBM AI Engineering Professional Certificate
- Advanced Data Science with IBM ,Specialization
- IBM Data Science Professional Certificate
- Applied Data Science with Python, Specialization

Technical proficiencies:

Python, MSO Package, Tableau, HTML, Unix, Linux, FLASK, SPSS, SAS, WEKA, R, SQL, Amazon SageMaker, Apache Hadoop, PyTorch, Keras, Tensorflow, Scikit-learn, Neural Networks, Data Wrangling, Git, Amazon Web Services (AWS), Microsoft Azure Machine Learning, Wolfram Mathematica, Matlab, S3, DynamoDB, Amazon Kinesis Data Analytics, Amazon QuickSight, Amazon Elastic Container Service (Docker Containers), AWS Elastic Beanstalk, IBM Watson, FORTRAN, CUDA, Node.js, Lambda, Cloudflare Workers, JSON, Cryptography, Network Security, Alexa ,IBM Watson Assistant, AWS DeepRacer, Bruteforce Cracking.

Additional Information:

Work Permit: Residence Card of a Family Member of a Union Citizen

---Key Projects, Publications, & Research work on Demand---