

Mrs. Cuneguines nixon

- **Location:** Carlow, BlackBor road, Carlow, Carlow, Ireland
- **Contact Number:** 0892499055
- **Email Address:** cuneguines@gmail.com
- **Job Name:** Applications Analyst
- **Reference Number:** 701/0
- **Source:**
- **Work Permit:** Yes



1. Driving License:

Licence Type: Full
Categories Held: B

2. Experience Summary

My name is Cuneguines, and I hold a master's degree in Data Science and Computer Application. with NFQ level 9.

I began as a web application developer before moving to Ireland to work as an application support in a MOORE Environmental product developed in VB and SQL. I worked as a Data Scientist intern at Aptagrim and was exposed to ML models in computer vision. While working as a Research Assistant at The International Energy Research Center, I gained extensive knowledge and experience in software development tools such as Python, PHP, CSS, and HTML in the energy domain sector.

I'm currently working on a machine learning research paper that I'm researching and analyzing with unsupervised machine learning; the paper has yet to be published.

That's a summary of my experience.

3. Qualifications

- **Postgraduate Diploma (NFQ level 9) - Data Science**
Attended: IT CARLOW
Period: from 10/07/2018 to 10/07/2019
Grade: Ordinary degree (Pass) (Achieved)

- **Masters Degree (NFQ level 9) - Computer Application**

Attended: The Indian Engineering College

Period: from 10/07/2000 to 10/07/2003

Grade: 1st class honours (Achieved)

- **Ordinary Bachelors Degree (NFQ level 7) - Chemistry**

Attended: All Saints College

Period: from 10/07/1997 to 10/07/2000

Grade: 1st class honours (Achieved)

4. Experience

- **Kent Stainless - Software Engineer**

Industry: Manufacturing / Engineering

Location: Ardca, Wexford

Period: from 10/05/2022 to Present

Description of duties:

Developing software application to visually aid company's manufacturing process , A Dashboard for analysis of the Data. Lead developer of the project.

- **IERC,UCC - Research Assistant (IERC,UCC)**

Industry: Research

Location: Cork

Period: from 10/05/2020 to 10/04/2021

Reason for leaving: Better Prospects , Reduce commuting time.

Description of duties:

- Participating in the delivery of Software tools for the Energy domain as part of a team. Using Python, PHP, SQL, MongoDB, and other programming languages.

- Participating in Data Science projects for optimization in the Energy sector, from data collection to analysis to prediction to optimization.

- Participated in BIM projects especially involving real-time energy data analysis and prediction using Python.

- Participated in the development of a people management tool in PHP, HTML, jQuery and SQL.

- Currently working on papers on ML and AI for cluster analysis (unsupervised) and Time series analysis of energy data sets, which will be published in the near future.

- Models like kmedoids, DbScan and kmeans with dtw as the metrics, were used these in energy dataset to find the which two series behave in a similar way according to their energy consumption. Pyclustering libraries from Python. Predictive analysis (supervised) on temperature, humidity on consumption. The algorithms used were

Regression algorithms Support Vector Regression, Lasso Regression and LSTM for the short-term prediction. scikit learn library for prediction.

- Contributed to the development of a publication management tool in PHP and MongoDB.
- Working in Publication/Project management tool developed in PHP, MongoDB.
- The tools heavily used for gathering data is Beautiful soup Python Library and Scrapy.
- Data collection via API (rest API); collecting data via API from the client-side device (for example inverter energy reading). API results in JSON format are then converted to csv, or written in SQL, and captured using pandas or sql connect. Using pandas' data frames and libraries for data cleansing and formatting and feature engineering.
- Python libraries such as pandas, numpy for matrix manipulations, Streamlit for EDA, Statistics for initial inference, and Seaborn, matplotlib lib, plotly, and soon are used to undertake exploratory data analysis.
- Evaluate model performance using RMSE score, Confusion matrix, Pattern recognition, Cross validation and Hypothesis testing.

- **Aptagrim - Data Science Intern**

Industry: Software development

Location: India

Period: from 10/12/2019 to 10/12/2020

Reason for leaving: Intern Time was one year

Description of duties:

- Statistical Data Analysis, Data Mining, Predictive Modeling and Machine Learning Techniques on various projects.
- Involved in Data Exploration process, Collection, Cleaning, Analysis, Manipulation, Profiling, Visualization and building models for deployment, data mining, feature engineering.
- Hands on with Data Science libraries in Python such as Pandas, Numpy, SciPy, Scikit-learn, Matplotlib etc.
- Proficient in several supervised and unsupervised Machine Learning algorithms and Predictive Modeling including Regression, Logistic Regression, Decision Tree, Random Forest, Support Vector Machine (SVM), KNN, K-mean clustering, PCA.
- Proficient in building Predictive, Classification, Regression, Clustering/Segmentation for Supervised and Unsupervised models with Python.
- Evaluated model performance using RMSE score, Confusion matrix, Pattern recognition, Cross validation and Hypothesis testing to in simulated environment.
- Proficient in data visualization tools such as Python Matplotlib/Seaborn.
- Knowledge on Natural Language Processing (NLP).

5. Additional

- i. **Question:** Are you a Current Teagasc Employee?
 - No
- ii. **Question:** Do you have any special need that we can accommodate at interview or in the workplace?
 - No
- iii. **Question:** Where did you hear about us?
 - PublicJobs.ie

6. Application Additional Questions

- i. **Question:** You may attach a CV which will be considered in addition to, or as an alternative to, completing the application questions below.
 - CuneguinesN.docx
- ii. **Question:** Please detail specific achievements, contributions or expertise you have developed during your career to date which clearly demonstrate your suitability to meet the role of ICT Applications Analyst within the area of Business Systems Implementation.
 - As a team, we were analyzing the present business process at Kent Stainless. SAP Business 1 was the current operating system for The Kent Stainless. After analyzing our team's key task, we made the decision to create a user-friendly and user-experienced system. As part of our investigation, we travelled to a few other manufacturing companies to observe how their internal operations worked. Our team concluded or suggested a system that is more time and money efficient than writing SAP reports, which takes more time. This led to the creation of brand-new interactive visual presentation techniques for analyzing this fresh (as well as old) sap data to assess the performance of the business.

The software must be able to decipher the data from the databases and present it in a clear and relevant way. Due of the company's long-term plans to use this software for meetings and management, this system made sure that it would also be dependable. Our recently proposed/built/system also offers an online inquiry into KPI dashboards,

which gives helpful insight on how to show information with a clean, appealing style. For the purposes of a planning meeting, the aforementioned graphical display techniques far outperform spreadsheet data. Although the dashboard should be as clean as possible and only provide the most pertinent information, the data is still available on the SAP Database should a user choose to explore for additional detail.

iii. **Question:** Please outline specific achievements, contributions or expertise you have developed during your career to date which clearly demonstrate your suitability to meet the role of ICT Applications Analyst within the area of Systems Analysis/Business Process Design.

- We evaluated the current process at Kent Stainless and proposed a new one, departing from their customary method of creating reports in SAP Business One and on-site server, while taking into account the company's mission, target market, customer base, people involved, and everything in between to determine how a new process will add value to your business. By educating them with the new proposed design will bring them including efficiency and cost effectiveness that can bring to the firm, we were able to persuade them to adopt the changes. We did analyze the system's target user, which is excellent because they were well-educated and knowledgeable about the technology. We began with a tiny pilot program to test the system and learn from our errors. The final product was excellent—a brand-new interactive visual presentation method SAP data in to improve the efficiency and analysing the data to evaluate the success of the company.

Additionally, the system will be able to extract the data from the databases and present it in an understandable and pertinent manner

As a member of the team that built a block chain curriculum from scratch for our academic project, I gained valuable insight into how the desired outcomes are achieved and what factors need to be considered. Say, for instance, that considering the end user's age and technical proficiency, it is necessary to offer them with materials that are simple to handle, affordable to use, and effective enough to use the technology being proposed. It was difficult because the intended audience consisted of adults with little to no prior understanding of the topic, so we had to develop an extremely efficient method. We were quite successful in that.

iv. **Question:** Please outline specific achievements, contributions or expertise you have developed during your career to date which clearly demonstrate your suitability to meet the

role of ICT Applications Analyst in relation to the area of Project Management

- I've gained the confidence to suggest new systems and modifications, and I periodically update myself to stay current with the field so the company won't fall behind in the market's competition. I had a terrific opportunity to present the plan and receive input from professionals in a variety of fields, including engineers and production managers. I improved my troubleshooting abilities by dealing with everyday issues. I developed my scripting, jQuery, ajax, and database management skills while learning the PHP language. improved my capacity to function both as a team player and in a leadership capacity. abilities to control your tension when operating under duress. Researching ways to increase my knowledge and optimize the system helped me develop better research abilities.

v. **Question:** Please outline specific achievements, contributions or expertise you have developed during your career to date which clearly demonstrate your suitability to meet the role of ICT Applications Analyst in relation to the area of Applications Testing.

- Though we are following agile methodology , we test the application now and then , including functional testing and system testing .We have a development environment and the production environment and the we uses the git as the version control .An efficient back up system for the database provisioning high availability and scalability.

vi. **Question:** Please provide an example of an occasion where you displayed your initiative

- Aside from the project I'm working on to create a brand-new interactive visual presentation, I'm also engaged in a peer-funded project to create a quality monitoring system. This is a cloud-based method of logging production industry non-conformities that is conveniently accessible to all members of the organization. Since the beginning, I have been solely responsible for all aspect of the project, from concept to development to implementation to testing and maintenance. The project requires a tailored solution using the SAP database. As the only team member, it is my responsibility to evaluate the current manual working system and, in a nutshell, determine whether it needs to be automated.

The project started off with suggesting couple of system design with advantages and

disadvantages cost effective and efficiency latency everything has to be considered. Where the application needed to be hosted cloud or on premise what s the drawbacks and what's the advantage it is bringing. I worked on all phases of the development process. started with a prototype and was agreed by the management to proceed. This system is currently running well, so many updates now and then. It is growing and though it is only meant for the quality division in the manufacturing. It is expanding to customer complaints and others divisions such as health and safety and son on.

vii.**Question:** Please indicate why you are applying for this position and what key qualities you consider you will bring to the role.

- I've worked as a software developer for at least 4 years. I kept myself up to date and improved myself by occasionally enrolling in courses. I completed a second master's degree in data science and learned how to develop machine learning (ML) algorithms while working as a research assistant at IERC. I also gained knowledge about how to build ML software tools and analyze data.

My job at Kent Stainless also gave me great exposure to software development in a manufacturing industry or production environment from the analysis of current manual system to upgrade it to user-friendly automate system. I got a great exposure to ML and php development tools in areas that build energy trading more or less like e-commerce website here we use energy instead of commodities. Aside from that, I am developing a quality management system under my direction. The entire software development cycle, from design to implementation to testing, was exposed to me through this project. I now have a fantastic opportunity to manage projects. schedule weekly meetings, calculate budgets, determine the benefits the project firm will receive, and determine my own benefits.

I'm also enrolled in a leading management course. to learn about the leadership positions.

viii.**Question:** Are you currently employed in the Irish Public/Civil Sector?

- no

ix. **Question:** If you answered no to the above, as per government policy the starting pay will be at the minimum point of the pay scale which is €47,800. Please confirm your understanding of this and that you are happy to proceed on this basis.

- I understand

x. **Question:** Please indicate where you first heard about this specific vacancy.

- Public jobs

CUNEGUINES NIXON



CUNEGUINES@GMAIL.COM



+353892499055



GIT URL

<https://github.com/cuneguines/ML-projects.git>

OBJECTIVE

An organised and diligent individual having recently completed a MSc in Data Science. Adaptable, and a good problem solver with an aptitude for data analytics. A logical thinker with a methodical, creative approach and open to learning new skills. Currently seeking opportunities in data science, python developer and related roles to apply many learned skills and make a valuable contribution.

SKILLS

EXPERIENCE

SOFTWARE ENGINEER(R&D), KENT STAINLESS LTD, WEXFORD

(May 2022 to present)

- Developing software tools to visually aid the manufacturing process. Dashboard for the KPI analysis and Forecasting.
- Project Manager/Leader in the development of the NCR system (A tool for Logging in the non-conformities in the manufacturing plant) from planning, analysis, design, development, testing, implementation, and maintenance.
- The tools used are PHP, HTML, jQuery, JS and SQL with git as the version control.
- Python for the data analysis and forecast (Machine learning Algorithms) in the Dashboard. Sql Database running in SAP business one.
- Tableau BI for the EDA.
- Python libraries such as pandas, NumPy for matrix manipulations, Streamlit for EDA, Statistics for initial inference, and Seaborn, matplotlib, plotly, and soon are used to undertake exploratory data analysis. Model evaluation using RMSE, Confusion matrix etc.

RESEARCH ASSISTANT(S/W), IERC, UCC

(May 2021 to April 2022)

- Participating in the delivery of Software tools for the Energy domain as part of a team. Using Python, PHP, SQL, MongoDB, and other programming languages.
- Participating in Data Science projects for optimization in the Energy sector, from data collection to analysis to prediction to optimization.
- Participated in BIM projects especially involving real-time energy data analysis and prediction using Python.
- Participated in the development of a people management tool in PHP, HTML, jQuery and SQL.
- Currently working on papers on ML and AI for cluster analysis (unsupervised) and Time series

Quick learner, Hardworking, Good interpersonal skills, team worker and think positive, and well versed in mathematics/statistics evaluation

OS -Windows, Windows, Linux, Mac-os, IOS, Android, Ubuntu

Programming Languages- C, C++, Java, Visual Basic 6.0, HTML, ASP, VB.Net, Python, Kubernetes, Rest API

Application- Excel, word, PowerPoint, Visio, Access, GitHub

Database- Oracle 9i, MS SQL, MongoDB, NoSql

Web scraping tools: Scrapy, BeautifulSoup

Data storage- Hadoop,

Web Skills- CSS, HTML, Bootstrap, PHP, cross-browser compatibility

AWS-Cloud practitioner certified enrolled

analysis of energy data sets, which will be published in the near future.

- Models like kmedoids, DbScan and kmeans with dtw as the metrics, were used these in energy dataset to find the which two series behave in a similar way according to their energy consumption. Pyclustering libraries from Python. Predictive analysis (supervised) on temperature, humidity on consumption. The algorithms used were Regression algorithms Support Vector Regression, Lasso Regression and LSTM for the short-term prediction. scikit learn library for prediction.
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- Python libraries such as pandas, NumPy for matrix manipulations, Streamlit for EDA, Statistics for initial inference, and Seaborn, matplotlib, plotly, and soon are used to undertake exploratory data analysis.
- Evaluate model performance using RMSE score, Confusion matrix, Pattern recognition, Cross validation and Hypothesis testing.

DATA SCIENTIST INTERIMAPTAGRIM.

Aug 2019 to Nov 2020

- Statistical Data Analysis, Data Mining, Predictive Modeling and Machine Learning Techniques on various projects.
- Involved in Data Exploration process, Collection, Cleaning, Analysis, Manipulation, Profiling, Visualization and building models for deployment, data mining, feature engineering.
- Hands on with Data Science libraries in Python such as Pandas, Numpy, SciPy, Scikit-learn, Matplotlib etc.

Quick learner, Hardworking, Good interpersonal skills, team worker and think positive, and well versed in mathematics/statistics evaluation

OS -Windows, Windows, Linux Mac-os. IOS, Android, Ubuntu

Programming Languages- C, C++, Java, Visual Basic 6.0, HTML, ASP, VB.Net, Python, Kubernetes, Rest API

Application- Excel, word, PowerPoint, Visio, Access. GitHub

Database- Oracle 9i, MS SQL, MongoDB, NoSql

Web scraping tools: Scrapy, BeautifulSoup

Data storage- Hadoop,

Web Skills- CSS, HTML, Bootstrap, PHP, cross-browser compatibility

AWS-Cloud practitioner certified enrolled

- Proficient in several supervised and unsupervised Machine Learning algorithms and Predictive Modeling including Regression, Logistic Regression, Decision Tree, Random Forest, Support Vector Machine (SVM), KNN, K-mean clustering, PCA.
- Proficient in building Predictive, Classification, Regression, Clustering/Segmentation for Supervised and Unsupervised models with Python.
- Evaluated model performance using RMSE score, Confusion matrix, Pattern recognition, Cross validation and Hypothesis testing in simulated environment.
- Proficient in data visualization tools such as Python Matplotlib/Seaborn.
- Knowledge on Natural Language Processing (NLP).

DATA SPECIALIST MOORE ENVIRONMENTAL LTD IRELAND.

Feb1 2018 to April 2020

- Worked on improving business process to streamline IT to Business.
- Research conducted on existing core application to analyze challenges and propose new changes.
- Worked with new partner to develop new application based on python to replace the current VB based application with SQL backend, enhance reporting, consolidate data and provide integration with Machine Learning BI tools.

DEVELOPER SAPCLE, UAE.

Mar 15 2017 to Jan 2018

- Software Developer/Web developer with history of productivity and successful project outcomes.
- Successful team member for Digital transformation project with customers, developing new endpoints interface for customer interactions and innovative business processes.
- Developed application using CSS, HTML, .Net, Java Script. Etc.
- Adaptable and proficient in the design and programming of frontend application.
- Well versed with backend database like Microsoft SQL, MySQL.

Spire Doc.

Free version converting word documents to PDF files, you can only get the first 3 page of PDF file.

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