

PROJET PROFESSIONEL

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INTRODUCTION

IT is an area that continues to evolve over time, and computer scientists are increasingly sought after around the world. But beyond the hiring guarantee, IT is an area that has always fascinated me and therefore, after completing my high school, I did not hesitate a second before making the choice of integrate a computer engineering school. To me it was the perfect blend of sheer logic and my creative side where I could create a code and then try to make it beautiful. And since then I have believed that a code is a mathematician painting the solution to a problem

In 2017, 4 years after doing my bachelors, I came to ISEP to pursue my studies further. 3 Semesters and 4 months into my internship, it is time for me to look to the next stage and make sense of my future career by detailing my career plan.

In this document, I will first review the skills I developed during my studies at ISEP, building on the work accomplished over the years. Then I will use these skills to define my professional project in the short and medium term

SKILLS ASSESSMENT

The competency-based approach is a cornerstone of ISEP's engineering cycle. It highlights not only the knowledge taught at school, but also the know-how and the savoir-faire that everyone will develop through projects and personal and professional experiences.

Since the beginning of the engineering cycle, I have repeatedly drawn up my skills report. I can thus judge my evolution and perceive more my progress.

As I come to the end of my engineering studies, I will now carry out this skills assessment again, using the general and specific skills benchmark for my career, Software Engineer

I. COMPETENCE GENERAL:

- a) **Act as a dynamic and effective actor in a group:** For our first year of ISEP, we had to work as a group to present our first project for our subject APP. It was a little difficult in the beginning since all the members of our group were new to us and it took us time to resonate our frequencies. But it taught us a lot about team-work and working together. Even during our disagreements, fast approaching deadlines we managed to work together and work towards a common goal. The emphasis given by ISEP to projects is truly commendable. Having worked in the IT industry for 4 years, I have recognised the importance of a group and it's dynamics. A team is only as strong as its weakest member and I have truly learnt here at ISEP to move forward and deeper with a team

- b) **Act well communicating in an international scientific and technical environment:** With the numerous projects I have been a part of during my studies in ISEP, I have had chance to develop my communication skills too. Over the course of 3 semesters, I have worked with team members from different nationalities, different competencies and different temperament. All through I have learnt how to successfully put my point forward and assert myself. These experiences have also taught me how to take constructive criticism and implement that in my work. Through these experiences I have also become more adjusting and understanding of my team members problems and have helped me empathize more. in the end, the success of any project required a dialogue, a listening and a strong argumentation on my part to make understand my point of view on the scope of the

project while remaining permeable to the contradiction and the relevance of other opinions

- c) **Research and Updating skills** : With the varied projects, I did come across situations where the project demanded a higher skill set than I had. For example for the 3rd semester my team chose to do 2 projects with Blockchain technology. In the beginning none of us had much expertise and we took it as a challenge. We came across various challenges, reportedly the specific environment it required and those specifications are very rigid. However we took help from our mentor, we went through various tutorials and took help from our friends too. It was a challenge but in the end we were able to simulate our project over a Playground. This is just one of the examples, but in my time in ISEP, I have learnt how to research and update my skill set on the go.

II. COMPETENCE SPECIFIC

EXPERIENCE	COMPETENCE	IMPROVEMENTS
APP (apprentissage par projet) : développement d'une application web	<ul style="list-style-type: none"> -discover new programming languages. - deepening knowledge in databases (SQL) -Work in a multicultural team (Chinese,French, ...) -to write the necessary documents for a GL project (functional / technical specifications document ...) 	<ul style="list-style-type: none"> - Better divide tasks among team members and involve everyone in the work -Encourage the team members to undertake more challenging tasks
Projet Web technologies : application web en Java.	<ul style="list-style-type: none"> -Discover the agile approach and the life cycle of a software project from the collection of needs to testing and presentation of the project. - To differentiate between the priority needs of the client and the lowest priority. -Better project time management to present deliverables on time. 	Peer validation
International Relation	<ul style="list-style-type: none"> - Discover the new ideas and methods of marketing. - Study various markets and customer needs 	- more time in analysing the markets
Breast Cancer Coimbra Dataset(Machine Learning)	-Supervised and unsupervised analysis of data for determining the principal factors responsible in determining breast cancer, and also the best	- more time in further analysing the equations impacting the dataset

	model to determine the relevant factors	
ENERNOC electricity consumption data	<ul style="list-style-type: none"> -NoSQL and MongoDB integration of data to determine the consumption of electricity, citywise and their time-series analyses - NoSQL and MongoDB modelling of data to determine the consumption 	- more research was required on our part
PFE (Projet Fin D'études) : Product Registration :UNICEF	<ul style="list-style-type: none"> -Development of independence, initiative, and responsibility –Implementation of all knowledge and know-how acquired during the course -creation of the spirit of collective work. 	-Do not hesitate to ask for help from someone who has more knowledge not to get stuck for too long.
Stages (fin d'études- PSA Groupe)	<ul style="list-style-type: none"> -Discovery of the professional environment -Autonomy -Discover the developer's job more closely and apply the technical knowledge acquired at the school. 	-Be less discreet and know how to put forward to mount what we are able.

PROJET PROFESSIONNEL

Based on my skills report, I will be able to define my career plan. Reflection on my professional project began several years ago and continued throughout my engineering cycle at ISEP. My project has been particularly enriched by my various professional and personal experiences, be it Learning by Project in the first year, internship in the second year and my previous experiences in the industry. All these experiences have shaped my personality and helped me build a project for my future career. I will now present the reflection that I followed and the purpose of my project.

I. Reflection on the skills assessment

I have always believed that whatever we learn we should use it to give back to our community and society. With the experiences I have had in the past 2 years and the various people I have met, I believe I can use my knowledge and experience to do much more and help in bringing forward a change. I do realise that in order to achieve my goal I have to gain further skills specifically in the area of data science and machine learning, but during the last semester with the skills and topics taught by Mme Patricia Conde-Cespedes and M. Jeremie Sublime, I have taken upon an interest in furthering my knowledge and expertise in the area of Machine Learning for my PhD after a couple of years

II. My profile and my state of mind

Since always, I have believed there is only so long we can complain about our evils in our society without actually doing something about them. As in the world, in India too crimes against women are at an all-time high. Despite of various initiatives by the government and the police too, the numbers are still quite appalling. These crimes impact the daily lives of women in the worse way and are one of the biggest barriers to their social and economic independence. In certain cases they are also stand as a barrier to further education of girls. Hence after a couple of years, I plan to pursue my PhD and expand my expertise into the area where I can closely analyse the various factors that impact these crimes and determine the defining factors and quantify their relevance and weight to the outcome. I hope to then implement these findings on some affected areas with higher rates of such crimes and then analyse and fine tune my thesis. I truly hope my research can help us to make some quantifiable changes to our system and hence lead to a better and safer environment for women to thrive in.

CONCLUSION

Through this report, I was able to present my skills assessment and my professional project. Thanks to the teaching I received at ISEP, my personal and professional experiences, I traced what could be the beginning of my career for the next years

For the next couple of years I would want to continue to gather more information and expertise in the area of Machine Learning and Data Science, through my work in the industry and/or through independent learning courses. Equipped with enough knowledge and experience, I would then move on to the research for my thesis and work on recognizing, quantifying and analyzing the various factors leading to increased number of Crimes against Women. I truly to hope to bring about a positive change in our society and I would like to thank my time and studies at ISEP to help me realize my potential and my goals. I agree that I still have a lot to learn and a long way to go, but I also have faith in my cause and hence believe that I can bring about the change I hope to.

For my CV please refer to the following link:

<https://www.linkedin.com/in/sritama-baisya-9670bb123/>