Laura Pedrinazzi

laura.pedrinazzi@gmail.com
+39 338 3749953

EDUCATION AND TRAINING

2016

24Ore Business School

Executive Master in Business Strategy and Digital Transformation

May-December 2016

2002-2005

Ph.D. in Bioengineering and Bioinformatics, University of Pavia

I achieved the title of 'Doctor of research' on 03/24/2006 by defending a thesis entitled

'Early identification of fetal distress through soft computing techniques based on analysis of fetal heart rate'

Final result: Excellent.

2001

Certification for the qualification to the profession of Computer Science Engineer

1995-2000

Degree in Computer Sciences Engineering (MSc), University of Pavia (100/110)

Final dissertation entitled

'Analysis of fetal heart rate using neural network'

WORK EXPERIENCE

Smart Capital, Italy

Technology Director

March 2023, now

Smartcapital is an evergreen investment holding specializing in minority private equity with an exclusive focus on "excellent" small and medium-sized Italian companies (listed, unlisted or in the pre-IPO phase) .
Smart Capital is characterized, in its investment approach, by an entrepreneurial and long-term approach to identify and support high potential and innovative italian companies.

Nokia, Vimercate Italy

Senior Data Scientist

Septmber 2018,March 2023

As part of global service department, I define, manage and develop use cases to networking optimization for Nokia Global on-premises and cloud (Azure, AWS) environment.

Main activities are
- Assessment definition and planning of the use cases
- Prediction of GPS coordinates starting from the signal analysis
- Ticketing project leading to improve network behavior
- NokiaEdu Global support to select and design material for the Nokia learning space (eLearning and live)
- Provide leadership and mentorship to other members of the team.

Laura Pedrinazzi

BID Company, Italy

Lead Data Scientist

May 2018,Sept 2018

Define, manage and develop models for data collection, forecast, classification and reporting of the operational performance of energy company (REPOWER)

Manage data collection and supervise a contextual analysis project about medical data.

Provide leadership and mentorship to other members of the team

Innowatio, Italy

Senior Data Scientist

July 2016,April 2018

Analyze data and discover consumer trends and insights, using statistical and machine learning methods and inspire the creation of new tools and methods in the energy environment.

Main activities are
- Anomaly detection algorithm on energy consumption (ESD twitter algorithm, HOTSAX, HTM)
- Forecasting of energy load and gas consumption (SVR,MPL, linear regression, PCA)
- Reinforcement learning algorithm to manage a HVAC system (pilot)
- Gas Consumption clustering
- Visualization and load disaggregation (energy consumption)

Experience with Java, Python, TensorFlow, R, MySQL, AWS Architecture, Mongo ,Knime

Laura Pedrinazzi

Singapore University Technology and Design

Singapore

Researcher

April 2014, March 2016

As researcher, I took part of multidisciplinary project, whose ultimate goal is to map 'big data' to adaptive urban design in order to increase the livability and liveliness of public spaces in dense regional centers in Singapore, working with the principal investigator of the project.

The research aims to first provide a holistic view of the public space usage in a testbed site and then focuses on public space (both residential and commercial area) and pedestrian linkages of wide interest, in order to understand how effective these are as planned, and how they contribute to the livability of a (new) regional center. This study will establish key urban design analyses, guidelines, solutions, and scalable models in order to facilitate the development of further regional centers in Singapore.

The aim is to unpack the systemic components that make up the public spaces and pedestrian linkages of a regional center, capturing knowledge through advanced technologies and modeling tools, both within each of these systemic components, and the threads that link these systemic components, and model how they make sense as a whole. In this context, the aim is designing a software to provide designers with an environment where they can make informed decisions about public space (re)design, taking competitive economy, high quality of life, and sustainable environment into account. We will investigate how Singapore can be more resilient to newer and more complex forms of high density urbanity to remain at the forefront of urban development and management through integrated master planning and development of public spaces and pedestrian linkages

Goal of the project is evaluate the project requirements, define the ETL process to collect sensor, telco , demographic data and define the software architecture and data science methods (MongoDB, Java, MySql, ADAX platform, Javascript, ArcGIS, Turf, MapBox,webGL, Weka). I work closely with developers and the different groups to ensure good standard of technical implementation and I provide progress reports.

Laura Pedrinazzi

University of Pavia, Italy

Software Analyst

March 2013,April 2014

Software engineer/Software analyst, IRMA project (Integrated Real-time Mobility Assistant)

In a project about Smart Cities, Urban Sensing, Big Data and Data Mining in Social Network, I worked together with System Architects to identify and evaluate crucial requirements and perform feasibility analysis related to project implementation . I define software architecture design (using Java/J2EE and LAMP solution),lower-level specifications design, implementation work flow and project time line. I work closely with developers to ensure good standard of technical implementation and I provide update progress reports to the management.

University of Pavia, Italy

Adjunct Professor

June 2010,September 2013

I have worked with the University of Pavia as co-teacher for "Software Engineering 2" (University of Pavia) and as adjunct professor for "Computer Science" course (Engineering faculty, University of Pavia)
Software applications are based on Php and SQL databases (Oracle, Postgres and MySQL).

Lispa Spa, Italy (Lutech Consultant)

Senior Data Analyst

June 2010,March 2013

Lispa is a company of Regione Lombardia (Italy) Healthcare System. Lombardia Informatica mission is to innovate services and increase The Regional System's productivity through Information Technology, in order to improve Italian Citizen's quality of life and Lombardia companies' competitiveness.
I covered in a first time the Software engineer position and ,in a second time, a

Laura Pedrinazzi

IT solution architect position. I worked in a business intelligence team collaborating with Regione Lombardia (Italy) to manage and create application for Italian Healthcare Information System.
I took part in a different project to conduct and to understand user requirement analysis for the development / implementation of new systems and for enhancements to existing systems relating to business intelligence (BI) , data warehouse, datamart, report , ETL process and data visualization.
Software applications are based on Java, SAS,SAS Report Studio, PL/Sql, Oracle, Netezza, SharePoint application and SQL databases (MS SQL Server, Oracle, and MySQL) and ArcGIS.

Cbim, Italy

Software analyst

November 2006, May 2010

As a software engineer, I analysed and developed operational tools for Healthcare areas.
I took part in a European project to collect and analyse patient data during follow up in presence of chronic headache disease and also took part in different design and development project of advanced web based information system (Emergency Admission Management, Outpatient booking Management, Hospitalization Management, http://www.cbim.it/articolo2.asp?id_art=30) for major hospital in the North of Italy.
Software applications are based on Java, /, Struts2, Cocoon, Hibernate, Ajax, Spring,
Web Service, XML/XSLT/XPATH, T-SQL , PL/SQL and concept of Design Pattern, ESB/SOA architecture

Vodafone IT, Italy

Software engineer

November 2005, November 2006

As a consultant (software engineer) for VODAFONE IT I took part in a project to develop and to test a Vodafone Google engine integration tool.

Laura Pedrinazzi

Software applications are based on Java, C, Unix, Corporate Applications (ERP Finance, HRMS, CRM, Content Management)

University of Pavia,Italy

Researcher (PhD)

November 2002, November 2005

I took part to a research project to analyse CTG (cardiotocography) signal through a multi parametrical analysis using neural network, support vector machine, fuzzy logic classification methods. Aim ofthe project was detect unhealthy babies that need caesarean surgery.

I taught also undergraduate courses on object-oriented software engineering design (UML and Java), pattern recognition, software engineering, object-oriented programming (C++, Java, UML). Duties include designing and developing course materials; performing examination duties including setting examination questions, moderating, marking, and checking; supervising undergraduate projects; conducting research; writing professional papers for publication and offering consultancy services to industry.
Software application is based on Matlab, SAS, C++, Weka, R, SPSS.

IRI Infoscan, Italy

Developer

October 2001, November 2002

The aim's company is tracking information to understand shopper activity, make micro- and macro-level decisions, collaborate on new initiatives and create innovative new products, packaging, pricing, promotion and merchandising strategies.
I developed a Java software tool designed for modelling IRI Infoscan business processes and to extract parameter about market activity.
Primary responsibilities included management and creation of statistical report to observe market trend

Laura Pedrinazzi