Ulises Rönnau, Data Science Student

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LINKS

LinkedIn, Portfolio

PROFILE

Data Science student at **UNC Chapel Hill** with a **3.9 GPA** and a **global background** across **4 continents**. **Built and deployed forecasting models into production** at **Splight**, now used by **all customers**, predicting grid capacity **10 days in advance** with **91–100% accuracy**, using **Python**, **LightGBM**, and **AWS Lambda/SageMaker**. Experienced in **genomics** and **DNA analysis** through **3D modeling**, **PCR**, **and electrophoresis** at **UNC**. Currently developing **AI tools for mental health** at **HEALLY**, using **FastAPI**, **Node.js**, **TensorFlow**, and **Affectiva**. Fluent in 5 languages, with a proven record of innovation across ML, biotech, and infrastructure planning.

EMPLOYMENT

June 2025 - July 2025	**Machine Learning Engineer at Splight** — San Francisco, USA

Built and deployed **ML models** at Splight to **forecast grid transmission line capacity up to 10 days ahead with 91–100% accuracy**, using **Python**, **XGBoost**, and **LightGBM**. Deployed via **AWS Lambda**, **SageMaker API**, and **S3**, now powering real-time dashboards used by all customers. Improved previous Splight forecasting models by identifying nonlinearity and seasonal bursts in data, leading to a model switch and **substantial gains in performance**.

Jan 2025 - Present	**Data Scientist at HEALLY** — Chapel Hill, USA

Develop ML solutions for HEALLY, a student based start-up from UNC Chapel Hill, which combines neuroscience and artificial intelligence to provide users with a personalized assistant in learning. Currently **working on the HEALLY MIND model**, a warning system that prevents burnout, stress, using **Node.js and Python FastAPI for backend** and **PyTorch**, and **Affectiva** for AI-driven analysis of facial expressions and voice tones.

Feb 2024 - Present	**Mathematics and Language Tutor at CollegeBoard	VarsityTutors** — Remote

Received an **honorary invitation** from CollegeBoard to tutor for, and beta test, the new digital SAT. Tutored **10 students** on the math section of the dSAT, did one-on-one tutoring to help a student **pass the New Jersey Student Learning Assessment for Mathematics** (high school), continue to **teach middle school maths** to students across the United States, **teach German and Spanish** to all ages.

Aug 2024 - Dec 2024	**Genetics Lab Technician and DNA Analyst at UNC Chapel Hill** — Chapel Hill, USA

Researched the **breakage and reparation of DNA chromosomes** in yeast by using phenol-chloroform miniprep, yeast transformation, PCR amplification, and running gel electrophoreses on **80 yeast colonies**. Studied the 3D structure of the nucleus through **mathematical modeling** with **C**, **C++**, and **Python** saving on hours of experimentation during prelabs.

Jan 2022 - Feb 2022	**Digital Commerce Intern at BMW Marketing** — Munich, Germany

Learned about customer online purchasing behavior from data analysts. Compared BMW's international marketing methods **across Europe, North America, and Asia**. Conducted research to **improve UX and UI** to streamline the traffic funnel by **reviewing competitions' car configurator websites** for the online marketing division.

Jul 2021 - Aug 2021	**Sustainable Urban Planning Intern at Reinhold-Maier Foundation** — Stuttgart, Germany

Selected among only 20 students in Stuttgart to design city plans that **implemented green infrastructure, pedestrian-friendly walkways, and biophilic buildings** using simulation programs. Learned about green technologies for agriculture. **Presented ideas to Mayor of Tengen, Germany.**

EDUCATION

Aug 2024 - May 2027	**Bachelor of Data Science, UNC Chapel Hill**	Chapel Hill, USA
	Concentration in Artificial Intelligence & Econometrics, **GPA: 3.9/4.0**	
Aug 2022 - Jun 2024	**IB Diploma Recipient, Myers Park High School**	Charlotte, USA
	Completed International Baccalaureate (IB) program, a globally recognized high school curriculum, **CGPA: 37/45 marks**	
Sep 2016 - Jul 2024	**Dillmann Gymnasium Stuttgart**	Stuttgart, Germany
	Transferred with final **(German) GPA: 1.5/6.0**	
Jan 2011 - Jun 2015	**British International School of Jeddah**	Jeddah, Saudi Arabia
Mar 2009 - Dec 2011	**Mark Twain**	Córdoba, Argentina

TECHNICAL SKILLS

Python	C, C++
Flask, PyTorch, TensorFlow, Scikit-learn, Pandas, Numpy, Matplotlib	SQL, R
HTML, CSS, JavaScript	Jupyter Notebooks, Google Colab, Docker
AWS, PythonAnywhere, Streamlit	GitHub, Git
	AWS

LANGUAGES

English	Native speaker	**French**	Very good command
German	Native speaker	**Japanese**	B2
Spanish	Native speaker		