## Arjun C Unni, Financial engineer

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LINKS	linkedin, Github				
PROFILE	Doctorate in Energy with a specialization in renewable energy modeling and risk analysis. Experienced in developing and implementing models for resource planning, energy market forecasting, and financial optimization. Proficient in MATLAB and Python for energy systems modeling and data analysis. Proven track record in energy policy studies and collaboration with energy teams for sustainable solutions. Expertise in market risk analysis and renewable energy investments, with a focus on integrating financial and energy models to drive decision-making in the energy sector.				
EMPLOYMENT HISTOR	Y				
Apr 2021 — Aug 2024	Associate Director-Product, Pi Securities PCL	Bangkok			
	<ul> <li>Conducted quantitative analysis and created ready-to-buy portfolios using global ETFs peach investor according to their risk aversion.</li> <li>Worked on complex wealth solution products such as Robo-Advisors, structured notes, investments.</li> <li>Developed portfolios using Python and modern portfolio theory, incorporating risk para VaR and CVaR.</li> <li>Utilized Monte Carlo analysis for stress testing.</li> <li>Assisted in ad hoc tasks such as onboarding banks with diligent documentation for the le compliance team, migrating from Excel to Python, and creating enhanced Excel template VBA coding.</li> <li>Created financial models for five stocks and five REITs to generate buy and sell recomm</li> </ul>	and alternative umeters such as egal and s using advanced			
Aug 2017 — Dec 2020	Research Assistant, Asian Institute of Technology	Bangkok			
	<ul> <li>Taught MATLAB and Python to master's students, covering topics from variable definitions to complex optimization algorithms like particle swarm optimization, applied to load flow analysis.</li> <li>Conducted research in deregulated power markets, including options, futures, and derivatives. Developed a novel fuzzy logic index to define a new risk-reward metric and applied it to renewable energy source planning.</li> <li>Performed statistical, qualitative, and quantitative analysis to support various research initiatives.</li> <li>Conducted rigorous research in financial modeling using MATLAB, Python, and Excel.</li> </ul>				
Jan 2014 — Jul 2016	Assistant Professor, Royal Engineering College and Technology	Thrissur			
	Applied innovative teaching methods to enhance student learning objectives for eight courses.				
EDUCATION					
Aug 2016 — Dec 2020	Doctor of Philosophy, Asian Institute of Technology	Bangkok			
	Graduated as Valedictorian	-			
Aug 2011 — Dec 2013	M-Tech in Power Electronics and Drives, Visvesvaraya National Institute of Technology (VNIT), Nagpur	Nagpur			
	Achieved a major milestone by building real-time controllers for a MAGLEV system as part of project.	control systems			
Aug 2006 — Apr 2011	Electrical Engineering, National Institute of technology(NIT)	Raipur			

SKILLS	Securities (Finance) Research Renewable Energy Modeling Financial Modeling Quantitative Analysis	Expert Experienced Experienced Experienced	Python (Programming Language) MATLAB Microsoft Office Product Development	Experienced Experienced Experienced
LANGUAGES	English Malayalam	Highly proficient Native speaker	Hindi	Very good command