



See us at the ANS Utility Working Conference, Drop by booth #501

August 7 – 10 | Marco Island, FL



Powering the Nuclear Fleet with Artificial Intelligence

New to the scene in 2016, but already trusted by over half the BWRs in the U.S. domestic fleet, Blue Wave AI Labs is an AI-centric, industry-focused innovator with main headquarters at Purdue Research Park in West Lafayette, IN.

We are pioneering the use of AI and machine learning in nuclear power operations to provide more accurate projections and deeper insights. Our physics-constrained process leverages existing plant data to help reclaim unnecessary design margin and reduce operational challenges during the fuel cycle.

Meet our Interns

Gautham Vinod, Mechanical Engineering PhD student, Purdue University. Gautham is currently working to quantify model uncertainty and build new levels of trustworthiness into our AI.

Rizki Oktavian, Nuclear Engineering PhD student, Purdue University.

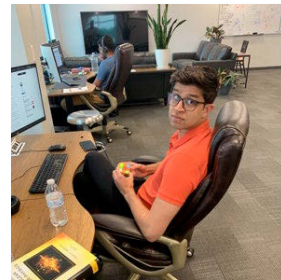
Rizki is using artificial intelligence to improve the accuracy and speed of real world full-core simulations.

Maniesha Singh, Nuclear Engineering PhD student, Purdue University.

Isha is developing economic models linking fuel costs with reload batch size, enrichment, and cycle length for BWRs.

Shuo Wang, Engineering and Technology Master's student in AI, Purdue University.

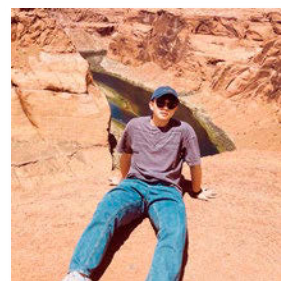
Shuo is using AI and natural language processing (NLP) to classify incident reports to identify problem components from unstructured data.



Gautham warming up with his Rubik's cube before running a new model.



Rizki getting ready for his PHYSOR 2022 presentation. **Congrats** on the award for best paper at the ANS student conference!!



Shuo practicing real world gradient descent!



Isha, speeding to the office!