KRISHNAPRAKASH K R

Engineer – ET Yield data mining, Yield Engineering

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No 66, St Antony layout, Mariyannapalya,
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D.O.B: 19 October 1997

EXPERIENCE

- **Engineer, Yield Engineering, JL4, GlobalFoundries Engineering private ltd, Bengaluru.** *Oct '22– present*

  Experience in Systematic yield monitoring and root cause analysis using data analysis techniques from large volume semiconductor electrical automated test data using ML/Data mining tools. Develops dashboards for monitoring mass volume silicon production line electrical/inline data signals and enabling technicians to implement early containment actions. Developing Production line optimization tools with user friendly interface which engineers can interact and make use of root cause analysis in semiconductor fabrication layers.

- **Intern, GlobalFoundries Engineering private ltd, Bengaluru.** *Mar '22 – Sept '22*

  Incorporating Application development based on data analytics with Industry level Semiconductor fabrication process. This helped team to change from manual signal capturing to automated dashboards.

- **Proprietor, care-PLUS, incubated by KUBIIC Student Start up programme,**

  University of Kerala *Dec '21 - June '22*

  Experience in co-ordinating and building a team for implementing a healthcare-based Android application. Successfully launched prototype model and completed initial social survey by leading a team of students.

EDUCATION

- Post Graduation as **Master of Science in Physics**: University of Kerala (UoK) | **GPA: 3.6** *2022*
- Higher secondary education in **Science, Mathematics and Computer science** stream, Board of Higher Secondary Examinations, Kerala | **GPA: 3.7** *2016*

SKILLS & KNOWLEDGE

- Data manipulation, interpretation techniques, presentation and communication skills *(*MS Excel / Python-pandas, Matplotlib, NumPy / MySQL / R).
- Production yield monitoring and root cause analysis in large volume production line using data analysis tools – R-Studio, SPC (Statistical process control) for wafer production in FAB (Remote FAB Support).
- Proficiency in large volume data handling and analysis for early containment actions leading to production/business process improvement.
- Proficiency in programming languages of C, C++, ES6 – JavaScript, Python.
- Strong knowledge and hands on skill in Advanced Mathematics (Calculus) and Statistics.
- Full stack web development - HTML, CSS, SCSS, Bootstrap, JavaScript, Node.js, Express.js, MongoDB, React.js, Next.js, Version control using Git**.**
- Advanced Microsoft office.
- Experience in working with globally collaborated team working based on pass down shifts.
- Experience in collaborating with team developing and implementing updated methodologies for improving data monitoring system in persisting platforms and tools.

ACHIEVEMENTS

- **Professional**: Shift Analysis using data Mining for automated electrical test data in Electrical Charecterization, GlobalFoundries: Able to introduce and implement Shift Analysis tool based on correlations and p-value to trigger production line signals for Electrical parameters during wafer production. This new practice enabled engineers in early detection of mismatch signals from inline measurements itself and contain it before bulk Wafer / IC Devices electrical fails at EOL in manufacturing procedures and enabled large volume product quality delivery to customers as well.

- **Academic**: Founded and Proprietor of 'care PLUS' being selected in and incubated by KUBIIC 2021 Student Start up programme by University of Kerala

PUBLICATIONS

1. **www.elsevier.com · Aug 15, 2023 | Wave perturbations in Earth's thermosphere in conjunction with X1.7 solar flare: Observational perspective |** Department of Physics, University of Kerala, Thiruvananthapuram 695 581, India. Indian Institute of Tropical Meteorology, Bhopal 411 008, India
   https://www.sciencedirect.com/science/article/abs/pii/S0273117723006750?via%3Dihub

   Using data analysis techniques and scientific approach, based on satellite observations data, the study examines the effect of an X1.7 flare (which occurred on January 27, 2012) on neutral winds and the formation of wave perturbations in Earth's thermosphere. (MATLAB, Python pandas, Matplotlib, NumPy, Excel)

PROJECTS (Freewill) /WORKS
(*https://www.krishnaprakash.in/works)*

- Official Website, Department of Physics – University of Kerala | HTML/CSS/JavaScript/Bootstrap/Firebase.
- Personal Portfolio Website – React – Next.js/Express.js/AWS Amplify/Git
- E-commercial website for *Shoppit* centre – MERN Stack (ongoing).
- *Chimizhu* magazine digitalization and documentation website – React.js/AWS Amplify/Git.
- Online Education website for *GradInSite* Startup– MERN Stack/AWS Dynamo DB/Elastic Beanstalk (ongoing).

LANGUAGES: English, Malayalam, Hindi.

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Online Courses Completed

- Course in Cybersecurity Roles, Processes and Operating System security by IBM Co-operation, Coursera
- Fundamentals of Digital Marketing, certified by Google
- Crash course in Python | Certified by Google, Coursera
- AWS Cloud Practitioner Essentials, AWS
- Foundations of User Experience (UX) Design, Certified by Google, Coursera
- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning, Coursera
- Prompt Engineering for ChatGPT, Vanderbilt University, Coursera

INTERESTS: Physical Sciences, Computer science, Technology, Travelling, Trading.

HOBBIES: Web development, Building RC Planes and trucks / Arduino Robotics, Football, Plane spotting, Reading Popular science, Badminton.