Dhrubajyoti Ray

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WORK EXPERIENCE AND INTERNSHIPS

Micron Technology   July 2022 - Present
Data Scientist   *Hyderabad, Telangana*

- Forecasted wafer characteristics following their traversal through the process chamber using **machine learning and regression analysis**.
- Formulated **metrology models** that resulted in a **70% decrease** in manual monitoring of wafer dimensions
- Submitted an internal journal article on **'Preventive and Predictive maintenance on Metrology models'**
- Worked on **analyzing the root-causes for wafer-yield loss** and **reducing the variability** which optimized **the bad wafer identification process** and **the cycle-time of the process** using **statistical analysis** and **deep learning techniques**

Resso-ByteDance Ltd.   April 2021-August 2021
Intern - Product & Operations   *Mumbai, Maharashtra*

- Facilitated the **onboarding of 150+ highly engaged users** to the core community through **1:1 interactions**
- Spearheaded **user research initiatives** to obtain insights for product and competitor satisfaction analysis.
- Assisted in **core product research analysis** to enhance user efficiency and increase penetration rate.
- Monitored product anomalies and gathered **user feedback** to assess scope and initiate troubleshooting measures.
- Provided support to the India CRM operations team by analyzing feedback received from core users, Google Play, and In-app channels.

SKILLS

- Python • MATLAB • Google Cloud Platform • C/C++ • JIRA • SQL • LaTeX • Tableau • Microsoft Office

EDUCATION

Indian Institute of Technlogy, Kharagpur   July 2017-June 2022
B.Tech + M.Tech. Chemical Engineering   *CGPA: 8.16/10.0*

Pace Junior Science College (**Higher Secondary School Education**)   June 2014- June 2016
Maharashtra State Board   *Percentage: 90.15%*

I.E.S Chandrakant Patkar Vidyalaya (**Secondary School Education**)   May 2014
Maharashtra State Board   *Percentage: 93.60%*

COURSEWORK

- **Depth:** Master's Thesis Project | Mass Transfer | Heat Transfer | Instability and Patterning of Polymers
- **Additional:** Programming and Data Structures | Probability and Statistics | Transform Calculus | Regression and Time Series Models | Business Environment and Policies | Economics | Data Analytics

POSITIONS OF RESPONSIBILITY

Entrepreneurship Cell, IIT Kharagpur   December 2017-April 2019
Associate Manager - Start-up and Alumni Relations   *Kharagpur, West Bengal*

- Organized the **Global Entrepreneurship Summit 2019** at IIT Kharagpur, attracting over **1800 participants**
- Established and managed **the Kharagpur Angel Network** in Gurgaon and Bengaluru, fostering connections with startups from IIT Kharagpur.
- Organized the **Entrepreneurship Awareness Drive Mumbai 2018**, promoting an entrepreneurial ecosystem.
- Coordinated a team of 10 individuals and managed a **participant turnout of 700+** at EAD 2k18.
- Secured **sponsorships totaling Rs 80k** for EAD Mumbai, resulting in **coverage by three leading newspapers** in the city.

Patel Hall of Residence   June 2019-June 2022
Vice Captain - Advertisement Design Team   *Kharagpur, West Bengal*

- Created impactful Video Ads, Radio Ads, Innovative Posters, and comprehensive marketing campaigns for an NGO to raise awareness about **deforestation, global warming**, and promote **afforestation initiatives**.
- Awarded a **gold medal** for developing an exceptional solution addressing the issue of deforestation.