Monika Rathore

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EDUCATION

- **Indian Institute of Technology**
Kanpur, India
Bachelor of Engineering in Electrical; GPA: 3.49(8.73/10.0)
Jun 2017 - May 2021

EXPERIENCE

- **Microsoft**
Hyderabad, India
Software Engineer
May 2021 - Present
  - Part of team responsible for blocking the diagnostic telemetry events that are not compliant with the Privacy rules
  - Worked on identifying blocked events that weren't blocked on certain devices and still collecting data from devices
  - Reduces PM effort by 70%, now they can directly find out list of devices where blocked events are still flowing

- **American Express**
Gurgaon, India
Data Scientist (Received a Pre-Placement Offer)
Summer 2020
  - Automated the process of data pre processing that takes away on an average 9 hours from data scientist
  - Created python libraries for data **visualisation**, dependent variable **prediction** and model **evaluation**
  - Used **XGBoost** for prediction of variables and AmEx Specific **evaluation metrics** to check prediction accuracy
  - Libraries will be deployed in AmEx Internal Dev tool **Machine learning Studio** along with user manual

PROJECTS

- **Covid-19 Visualizer and Query Bot**
SPS, Google
Mentor: RajLaxmi A
Summer 2020
  - Designed a **web application** to process queries related to covid-19 cases and a **chatbot** to answer questions
  - Trained the model on **dialogflow** to compare corona-virus cases based on dates and geographical location
  - Awarded as a **Best Team Builder** for creating an encouraging environment for teammates to collaborate

- **Statistical study of bug localization techniques**
CSE, IIT Kanpur
Prof.Subhajit Roy
Summer 2019
  - Ranked **25 metrics** used for bug localization using sample of **2000 test suites** assuming flakiness of test cases
  - Compared the metrics using **p-values** obtained by **Wilcoxon** test on mean value of effort of each metric
  - Analyzed the results **graphically** and compared the ranking obtained with test cases without flakiness

- **Haptic wristband**
IIT Kanpur
Robotics Club
Summer 2018
  - Fabricated wristbands that help us navigate to given destination using the **Haptics nudge** provided by bands
  - Bands are controlled by **Arduino** connected with mobile via serial communication
  - Awarded as **Best Innovative Project** by Science & Technology Council, IIT Kanpur among 60 summer projects

SCHOLASTIC ACHIEVEMENT

- Secured an **AIR 473 & 2078** in JEE **Mains** and **Advanced** 2017 respectively, among 1.2 million candidates
- Selected as a mentor at virtual **Grace Hopper Celebration** 2020 Open Source Day (OSD) organized by AnitB.org to help participant in project setup and in creating pull requests for open issues in project
- Selected among **top 40 girls** across India via coding challenge to participate in Hackathon, **Uber She++ event**

PROGRAMMING SKILLS

- **Languages**: C, C++, C#, Python, Javascript, SQL, Matlab, Scope

RELEVANT COURSEWORK

- **Computer Science**: Introduction to Programming, Data Structures and Algorithms, Database Management System, Machine Learning, Topics in Probabilistic Modeling & Inference