Ishan **Khatri**

ML, DL, AI, Smart Grid, IoTs · Electrical Engineer, , IEEE Student Member since 2016

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"I love solving real-world problems. Strong understanding of centralized cloud computing, edge computing and IoTs sensors. Comfortable working in a fast-paced environment. I believe am a perfectionist and that is my main weakness, which I also think is my strength. Able to work well independently or in a collaborative team environment."

Education

PVAMU (Prairie View A&M University)   *Prairie View, Texas, USA*
Masters in Electrical and Computer Engineering   *August 2015 - Present*

LDCE (Lalbhai Dalpatbhai College of Engineering)   *Ahmedabad, India*
Bachelor in Electrical Engineering   *August 2008 - June 2012*

Skills

Data Science	**IDEs :** JetBrains Pycharm, Jupyter, Atom, Sublime Text. **Documentations :** Texstudio LaTeX). Terminal (Vim), Markdown. **Data manipulation tools :** PySpark, Hive, Pandas, Excel, Google Sheets. **Text Processing NLP Frameworks :** CoreNLP, NLTK, TextBlob, Gensim, SpaCy. **Programming :** Python, R, Go, Scala, Excel. **Deep Learning Frameworks :** PyTorch, Keras, Tensorflow, Pandas, Numpy, Scikit-learn. **Visualization Tools :** Tableau, Power BI, Google Analytics, Seaborn, Matplotlib, Shiny, Plotly. **Version control :** Git. **Applications :** Microsoft Azure, SAS, SPSS, Weka, Google Sheets, Open Office.
Electrical	**Deep knowledge of Power system design and analysis:** Power System, Power Electronics, Smart Grid, IoTs, Switchgears, Power and Distribution Transformers. **Hardware :** Cisco Devices, Raspberry Pi, Arduino, Networking and other DIYs **Web :** Hugo, HTML5, XML, CSS.
Applications	**Other languages :** BASH. JAVA(Android Studio), MATLAB, Ampl and Maple (Mathematical computation and simulation), R (Data Mining), C, C++. **Container :** Docker. **Electrical :** AutoCAD Electrical, ETAP, LabView, VMware.
Other	Art, Photography, Google Power Searcher (2012)

Experience

Information Technology Services   *Prairie View A&M University, USA*
Graduate Assistant   *June 2016 - Aug 2016, Aug 2017- Present*
- **Co-admin** support for on-campus users providing **Cisco Unified Communication and Networking** solutions. Data analysis on Cisco database to get provide maintainance insigthts. Providing excellent installation and technical support: hardware/software across the whole campus.
- Developing reports for security audits on the databases using SQL Workbench on python. Coordinating with the Information and Technology Service team and reporting the security issues. Documentation of the technical services.

Center of excellence in Research and Education for big military Data InTelligence (CREDIT)   *Prairie View A&M University, USA*
Graduate Research Assistant - Thesis   *September 2016 - July 2017 - Present*
- Build Deep Learning regression models on Smart Meter Data from Irish Social Science Data Archive to forecast power usage based on individual consumer driven to facilitate the electric utility company and consumers to forecast energy demand to use energy most efficiently and save energy loss.
- Build multi-class classifier to classify which plan fits best based on their energy usage behavior using Keras Deep Learning.
- Successfully supervised and guided undergraduate students in building a "Portable Air Quality Device" using Arduino.

Center for Energy and Environment Sustainability and Naval Reserve Officers Training Corps   *Prairie View A&M University, USA*
Graduate Research Assistant and Tutor   *October 2015 - May 2016*
- Amass research papers based on Life Cycle Assessment of Energy generated from different sources such as coal energy, nuclear energy, geothermal energy, wind energy. Houston-area Air Quality Data processing and formatting on Excel programming.
- Succeeded in raising student's grade from a 60% to 90% to secure NROTC Scholarship. Provided tutoring for physics & mathematics courses.

Patel Electricals   *Waghodia, India*
Quality and Test Engineer for Power and Distribution Transformer *July 2012 - July 2015*
- Inspection of incoming raw materials and final inspection transformer as per standard specification sheet and IS/IEC Standards. Identification of the root cause of quality issues and execution of product quality improvements through preventive or corrective actions and to perform routine tests.

Academic Projects

Electrical and Computer Engineering   *Prairie View A&M University*
During Masters   *August 2015 - Present*
- Text processing, classification & clustering, Sentimental analysis, Time-series forecasting & classification, Image classification, Android applications.
- Generate and analysis different types of codes such as Hamming code, Convolutional code using **MATLAB** as a part of project in Coding Theory.

Electrical Engineering   *Ahmedabad, India*
During Bachelors   *August 2008 - July 2012*
- Successfully solved Industrial Define Problem for Royal Solar Ltd. (Rajkot). Solar tracking, cleaning and theft prevention system for Solar Street light. Performed distributed system voltage performance analysis for high-level penetration photovoltaic. Conducted efficiency and price/watt comparisons on other solar power systems on the market to gather intelligence used for marketing campaigns.

Honors & Awards & Involvements

2013	**Supervisor**, Electrical Supervisor License from Government of Gujarat		*Gujarat, India*
2011	**1st Place**, Terminator Androids at the national level technical symposium "PRAKARSH '11		*SVIT, India*
2011	**2st Place**, BATTLE BOTZ" at the national level technical event "FOOT PRINTS XI		*MSU of Baroda, India*