

# SLEEBA PAUL PUTHENPURAKEL

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## SUMMARY

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- Machine Learning Engineer at Perleybrook Labs LLC.
- Graduate Degree (M.Tech) in Power Systems.
- Undergraduate Degree (B.Tech) in Electrical and Electronics Engineering.
- TEDx speaker at TEDxMITS 2019 on "Building New Perspectives With Artificial Intelligence".
- Speaker at PyData Delhi 2019, on "Multi Modal Machine Learning Pipelines".
- Published author at YourStory, Good Audience, Towards Data Science and Malayala Manorama daily.
- Published two International Conference papers on Identification and Classification of Micro-grid Disturbances using Artificial Neural Networks.
- Completed 20+ MOOCs in fields of Artificial Intelligence, Electrical Engineering and Computer Science.
- Co-creator of Auria Kathi the first AI Poet Artist, selected to exhibit on Florence Biennale 2019.
- Top 5% code contributor at MATLAB Official File Exchange.
- Personal blog with readers from 20+ countries.
- Area of interests includes Artificial General Intelligence, Data Science and Computational Neuroscience.

## WORK EXPERIENCE

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### Machine Learning Engineer, Perleybrook Labs LLC

July 2017 - Present

- Sequence Models for Language Modeling
- Implementation and maintenance of Deep Learning models
- Content enhancement using NLP and Machine Learning
- Building and deploying chat-bots
- Live Video Streaming, Analytics, Audio Classification and Object detection
- Website: <http://perleybrook.com/>

### Junior Data Scientist, Unisave Marketing Networks Pvt. Ltd.

November 2016 - June 2017

- Responsible for entire data product pipeline.
- Text classification using NLP-based feature extraction and ensemble methods like Gradient Boosting.
- Setup REST API for Data Products
- R&D projects on Information Extraction from the Web.

## EDUCATION

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### University of Calicut, Kerala, India

August 2014 - August 2016

M. Tech, Power Systems

CGPA: 7.64/10.00

### Cochin University of Science and Technology, Kerala, India

August 2009 - March 2013

B. Tech, Electrical and Electronics Engineering

CGPA: 7.20/10.00

## SKILLS AND INTERESTS

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<b>Skills</b>	Deep Learning, Data Science, Video Analytics and Language Modeling
<b>Programming Stack</b>	C++, Python, R, MATLAB, Octave and Shell
<b>Interests</b>	Blogging, Storytelling, Public Speaking and Photography

## ACCOMPLISHMENTS

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### Publications

- Published an IJIRSET International Conference Paper on Islanding Detection in Grid - Connected 100 kW PV System Using Wavelet Transform.
  - Link: [https://www.ijirset.com/upload/2016/incets/12\\_incets68.pdf](https://www.ijirset.com/upload/2016/incets/12_incets68.pdf)
- Published an IEEE International Conference paper on Identification and Classification of Microgrid Disturbances in a Hybrid Distributed Generation System Using Wavelet Transform
  - Link: <http://ieeexplore.ieee.org/document/7854066/>

### Certifications

- Advanced Machine Learning Specialization - Coursera
  - Bayesian Methods for Machine Learning - Coursera - Apr. 2019
  - How to Win a Data Science Competition (With Honors) - Coursera - Oct. 2018
  - Introduction to Deep Learning (With Honors) - Coursera - Aug. 2018
- Data Structures and Algorithms Specialization - Coursera
  - Data Structures - Coursera - Jun. 2018
  - Algorithmic Toolbox - Coursera - Apr. 2018
- Deep Learning Specialization - Coursera - Feb. 2018
  - Sequence Models, Coursera - Feb. 2018
  - Convolutional Neural Networks, Coursera - Dec. 2017
  - Improving Deep Neural Networks: Hyper-parameter tuning, Regularization and Optimization, Coursera - Oct. 2017
  - Structuring Machine Learning Projects, Coursera - Oct. 2017
  - Neural Networks and Deep Learning, Coursera - Sep. 2017
- Introduction to Git for Data Science, DataCamp - Dec. 2017
- Introduction to Shell for Data Science, DataCamp - Dec. 2017
- Deep Learning with TensorFlow, IBM - Nov. 2017

- Computational Probability and Inference, edX - Dec. 2016
- Introduction to R, DataCamp - Dec. 2016
- Big Data Foundations (Level 1), IBM - Aug. 2016
- Data Science Essentials - Microsoft, edX - Jul. 2016
- Machine Learning, Coursera - Jun. 2016
- Introduction to Computer Science and Programming Using Python, edX - Mar. 2016
- Solar Energy, edX - Dec. 2015

## Personal and Collaborated Projects

- Auria Kathi - The first AI Poet Artist
  - Blog: <https://sleebapaul.github.io/auriakathi/>
  - Instagram Handle : <https://www.instagram.com/auriakathi/>
  - Auria selected to exhibit on Florence Biennale on October, 2019.
  - Auria featured at CreativeApplications.Net, Towards DataScience, Coding Blues, Creative AI Newsletter, Indian Express, Malayala Manorama, Deccan Chronicle and Business Standard.
  - Auria is collaborating with Microsoft Azure Machine Learning Pipelines.
  - Speaker at PyData Delhi, 2019 on the topic "Multi model Machine Learning Pipelines"
- Gospel of LSTMs - How I wrote fifth Gospel of Bible using LSTMs
  - GitHub Repository: [https://github.com/sleebapaul/gospel\\_of\\_rnn](https://github.com/sleebapaul/gospel_of_rnn)
- PyThesaurus - A pip package to fetch synonyms and meanings from on-line dictionary sites
  - Python Package: <https://pypi.python.org/pypi/py-thesaurus/>
- Implementation of Content Extraction Via Tag Ratios(CETR) in Python
  - Bitbucket Repository: [https://bitbucket.org/red\\_pills/cetr-py.git](https://bitbucket.org/red_pills/cetr-py.git)
- Sentiment Analysis of Malayalam movie Take Off - 2017 based on bookmyshow.com reviews
  - GitHub Repository: [https://github.com/sleebapaul/sentiment\\_analysis\\_take\\_off\\_movie](https://github.com/sleebapaul/sentiment_analysis_take_off_movie)

## Tutorials

- Naive - Bayes Classifier
  - GitHub Repository: [https://github.com/sleebapaul/naive\\_bayes\\_tutorial](https://github.com/sleebapaul/naive_bayes_tutorial)
- A beginner tutorial on TensorFlow
  - GitHub Repository: [https://github.com/sleebapaul/hello\\_tensorflow](https://github.com/sleebapaul/hello_tensorflow)
- Linear Regression Using TensorFlow
  - GitHub Repository: [https://github.com/sleebapaul/linear\\_regression\\_tutorial](https://github.com/sleebapaul/linear_regression_tutorial)
- Vanishing Gradients
  - GitHub Repository: [https://github.com/sleebapaul/vanishing\\_gradients.git](https://github.com/sleebapaul/vanishing_gradients.git)
- Residual Networks
  - GitHub Repository: [https://github.com/sleebapaul/res\\_nets\\_tutorial.git](https://github.com/sleebapaul/res_nets_tutorial.git)

- Language Modeling using Recurrent Neural Networks (Part-1)
  - GitHub Repository: <https://sleebapaul.github.io/rnn-tutorial/>
- Language Modeling using Recurrent Neural Networks (Part-2)
  - GitHub Repository: <https://sleebapaul.github.io/rnn-tutorial-2/>

### **Medium Articles**

- Why all should learn how to code?
- Why tier-X engineering institutions of India need MOOCs?
  - Featured in YourStory, India's biggest and definitive platform for startups and entrepreneurs related stories, resources and research reports.
  - Featured in Malayala Manorama, Kerala's largest daily with a 16 million readership base.
- Gospel of LSTMs; How I wrote 5th Gospel of Bible using LSTMs? - Good Audience
- Auria Kathi Powered by Microsoft Azure Machine Learning Pipelines - Towards Data Science

### **Top 5% code contributor at MATLAB Official File Exchange Portal**

- Contributions on Machine Learning, Optimization Techniques and Power System problems.
- Link: <https://in.mathworks.com/matlabcentral/profile/authors/5704137-sleeba-paul>

### **Personal blog since 2011, having readers from 20+ countries**

- Link: <https://sleebapaul.wordpress.com>

### **Test Scores**

- International English Language Testing System (IELTS) - Academic
  - Common European Framework of Reference (CEFR) - C2 band fluency in English
  - Overall Score: 8.0