Soumya Ranjan Behera

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GitHub: https://github.com/Soumya44/ | **Portfolio:** https://soumya44.github.io/

CAREER OBJECTIVE

A passionate and ingenious developer with the propensity to compete in a fast-paced environment and revamp readily to new challenges. Proven experience as a Machine Learning Engineer ready to work in the field of Machine Learning and Artificial Intelligence.

PROFESSIONAL EXPERIENCE

RELIANCE INDUSTRIES LIMITED, MUMBAI
Machine Learning Intern, Jun 2018 – Jul 2018

- Developed a Machine Learning project "PoseNet: Real-Time Human Pose Estimation" using Tensorflow.js which produced 96.87% accuracy in field testing.
- This project involved the estimation of human pose in real-time using Web Camera that runs in a Browser.
- Implemented Single and Multiple Body Keypoints Detection Algorithm using MobileNet Architecture of CNN.

ERIDE, HYDERABAD (REMOTE)
Digital Marketing Intern, Jan 2018 – Feb 2018

- ERIDE is a youth run, ISO certified non-governmental organization that helps technologically backward people become digitally literate.
- During this internship period, our team implemented various marketing strategies through e-mail and social media platforms which lead to an upright increase in awareness of digital literacy.

PERSONAL PROJECTS

HISTOPATHOLOGIC CANCER DETECTION

- Developed a Deep Learning Model for the Identification of Metastatic Tissue in Histopathologic Scans of Lymph Node Sections which provided 0.94 ROC AUC Value.
  Link: https://www.kaggle.com/soumya044/histopathologic-cancer-detection

POSENET: REAL-TIME HUMAN POSE ESTIMATION
Summer Internship 2018 with Reliance Industries Limited

- Implemented both Single and Multiple Body Keypoints Detection Algorithm using MobileNet Architecture of CNN which resulted in 96.87% accuracy of the model.
  Link: https://github.com/Soumya44/PoseNet-Real-Time-Human-Pose-Estimation-using-Tensorflow.js

HAND-WRITTEN DIGIT RECOGNITION USING DEEP LEARNING
Advanced Skill Development Lab Project 2018

- Developed a Deep Learning Model to recognize the hand-written digits efficiently with a testing accuracy of 98.8% and training accuracy of 99.84%
- Also, provided the comparative analysis of the model with various Machine Learning Algorithms for Digit Recognition such as SVMs, RFC, and K-Nearest Neighbors Classifier.
  Link: https://github.com/Soumya44/Handwritten-Digit-Recognition-Using-Convolutional-Neural-Network

ARTISTIC NEURAL STYLE TRANSFER USING PYTORCH
Facebook PyTorch Scholarship Intermediate Project 2018

- Implement the style transfer method using VGG19 that is outlined in the paper, Image Style Transfer Using Convolutional Neural Networks, by Gatys in PyTorch
  Link: https://www.kaggle.com/soumya044/artistic-neural-style-transfer-using-pytorch

SMART BUILDING USING IOT
Skyfi Innovation Club Project 2018

- Designed prototype that used an Arduino Uno microcontroller and PIR sensors to check the entries and exits of people to a room and controlled the electric equipment available in the room accordingly and also upload the data to cloud for further analysis under the guidance of Skyfi Labs.
  Link: https://youtu.be/S9vE8Dk_b4I

GOOGLE INDIA SCHOLARS COLLABORATIVE PROJECT: VIRTUAL BLOOD BANK
Google India Scholars Community Project 2018

- This project is a web application named "JeevanRakht" dedicated to locate blood donors across a region and also who needs blood mentored by Google and Udacity Team.
- Worked as a UI/UX Lead of the Community-driven Project and managed 30+ contributors with my team.
  Link: https://github.com/UdacityFrontEndScholarship/jeevan-rakht

GOOGLE ASSISTANT APP (ACTION): DAILY ROSTER

- Designed, Developed and Published globally (225 counties) a Google Assistant App (also called Action) named "Daily Roster" available in every Google Assistant supported devices such as Android Devices, Digital Wearables, Google Home, Smart TV, and other Smart Devices.
- This app keeps track of the academic schedule, canteen menu of students and teachers.
- Implemented Natural Language Understanding (NLU) using DialogFlow API and Firebase with GCP.
  Link: https://assistant.google.com/services/a/uid/000000dee368aa30?hl=en&source=web

EDUCATION

SILICON INSTITUTE OF TECHNOLOGY, BHUBANESWAR
Bachelor of Technology(B.Tech) in Computer Science and Engineering (Honors), 2016-2020

GOOGLE FRONT-END DEVELOPER NANODEGREE
Udacity, 2018

TRAINING AND CERTIFICATIONS

FACEBOOK PYTORCH SCHOLARSHIP DEEP LEARNING CHALLENGE COURSE
Facebook AI /Udacity, Nov 2018 – Jan 2019

IBM DATA SCIENCE PROFESSIONAL CERTIFICATE
IBM Watson / Coursera, Oct 2018 – Feb 2019

DATA ENGINEERING IN GOOGLE CLOUD PLATFORM SPECIALIZATION
Google Cloud / Coursera, Sep 2018 - Oct 2018

SYSTEM ADMINISTRATION AND IT INFRASTRUCTURE SERVICES
Google / Coursera, Jan 2019 - Feb 2019

FRONT-END DEVELOPER NANODEGREE
Google / Udacity, Feb 2018 – Nov 2018

CCA CERTIFICATION IN JAVA LEVEL 2 (ADVANCED JAVA)
Cambridge Certification Authority, Oct 2017

PROFESSIONAL SKILLS

- **Programming Languages:** Python, C/C++, Java, R, HTML, JavaScript
- **Databases:** MySQL, MongoDB, OracleDB
- **Machine Learning:** Exploratory Data Analysis, Predictive Analysis, Feature Engineering
- **Deep Learning:** Keras, PyTorch, TensorFlow, Computer Vision, Recurrent Neural Network, LSTM
- **Cloud Data Engineering:** Google Cloud Platform, BigQuery, Data Pipelines, Docker, Kubernetes

AWARDS AND ACHIEVEMENTS

- Facebook PyTorch Scholarship Recipient 2018-19
- Facebook-Udacity PyTorch Student Community Hall of Fame
- Grow With Google (India) Developer Scholarship Recipient 2018
- Represented Google India Scholars and Udacity in Google I/O ’18, USA
- Kaggle Top 1% Public Leader board Score in Digit Recognizer Competition
- ISTE State-Level C Programming Competition Runners-up
- Gold Medallist in National Level Inter-School Painting Competition

POSITION OF RESPONSIBILITY

- Established and managed Silicon Skyfi Innovation Club (Jun’18 – Sep’18) which aims on transforming innovative ideas of students into IoT and Cloud-based solutions to Real-world Problems.
- Worked as a Student Moderator of Google India Scholars 2018 Slack Workspace for 6 months.
- Worked as a Co-Moderator of Google India Scholars Collaborative Project: Virtual Blood Bank.