Mohankumar Sriram

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EDUCATION

- ***B.M.S College of Engineering*,** Bangalore, India
  Bachelor of Engineering, Electronics and Communication, CGPA: 9.66/10
  Graduated in June 2016.
  - ➢ *Key Courses*: Linear Algebra, Multivariate Calculus, Operations Research, Algorithms, Control Systems, Digital Signal Processing.

EXPERIENCE

- **Co-Founder**
  Neospec Labs, Bengaluru, India. July 2018-June 2019
  - ➢ Designed and implemented a neural network model with optical input features to predict the incidence of jaundice in neonates with sub second inference time.
  - ➢ Developed a monte carlo simulation based light propagation model for the neonatal skin which reduced the model's predictive variability by 30% and improved overall accuracy by 18%.

- **Deep Learning Engineer (Remote)**
  Newmind Robotics, Massachusetts, USA. October 2017-July 2018
  - ➢ Built a deep reinforcement learning based action command selector for a biologically inspired UAV (bird).
  - ➢ Remodelled the physics engine to render the bird in units of air-foil fragments to improve the simulation rendering time by 50%.

- **Mentor (Remote)**
  Udacity, California, USA. May 2019-Present
  - ➢ Mentoring students from the data science nanodegree program.

- **Software Engineer-I**
  Sling Media, Bengaluru, India. July 2016-June 2018
  - ➢ Ideated and implemented a multiple platform live streaming client interface for a portable media streaming product (SlingStudio) which accounted for more than 60% of the user session lengths.
  - ➢ Created a virtual ecosystem for automatic analytics generation, retrieval and management which reduced the number of debugging man hours by 100%.

- **Software Engineer-Intern**
  Sling Media, Bengaluru, India. Jan 2016-June 2016
  - ➢ Designed and deployed a standalone Web-Sockets based Real Time Diagnostics Monitoring System using QT(C++).
  - ➢ Integrated the system with custom built web application.

- **Research Intern**
  Raman Research Institute, Bengaluru, India. Jan 2016-June 2016
  - ➢ Programmed multi-threaded kernels using OpenCL on Virtex-7 FPGA platform to improve computation time for fast fourier transforms by 30%.

AWARDS

- 2016 - **Academic Excellence Award,** BMS College of Engineering (Awarded to 5 students out of 220)
- 2015 - **Best Student Team,** Intel IOT Hackathon (Over 1200 participants)
- 2012 - **Best Student Award**, KLE Pre-University College (Among 120 students)
- 2010 - **Bronze,** National Talent Search Examination for Mathematics (Over 120000 participants)

PRESS COVERAGE

- Winner: Pets Breed Classification Challenge - link

LANGUAGES AND TECHNOLOGIES

- **Programming languages**: Python (advanced), C/C++ (proficient), Swift (proficient), JavaScript (prior experience).
- **Technologies**: Pytorch, TensorFlow, Keras, ROS, Node.js, React.

NON-ACADEMIC AWARDS

- 2017 - **7th Place,** International Yoga Championships (Among 50 champions from around the world)
- 2016 - **Gold,** National Yoga Championship, Bengaluru, India
- 2016 - **Sporting Excellence Award,** BMS College of Engineering