9450 Gilman Dr., 40152
La Jolla CA, 92092

Apoorve Dave
Department of Computer Science UCSD

(858) 291-2335
a1dave@eng.ucsd.edu
apoorvedave.github.io

EDUCATION

- **University of California, San Diego | GPA 3.8/4.0**
  MS, Computer Science   Sept'15 – Present
- **Indian Institute of Technology, Roorkee**
  B Tech, Electronics and Comm. Engg.   July'07 - May'11

COURSES

Principles of AI: Probabilistic Reasoning & Learning, Data Mining and Analytics, Machine Learning, Artificial Neural Networks, Design and Analysis of Algorithms, Data Structures, Big Data Analytics using Spark

PROJECTS

- Trained DeepMind's AI agent to play Atari games, with upto 9x performance gain over human level.
- Trained a Recurrent Neural Network for Image Captioning of flickr8k dataset with Meteor Score of 16.7
- Trained a Trained a Recurrent Neural Network for automatic Music Generation from existing music data.
- Developed a Convolutional NN for image classification on Cifar-100 dataset with an accuracy of 54.6%
- Developed "Helpfulness Prediction" system for amazon reviews, with 15th rank in Kaggle competition
- Developed an OCR system for Handwritten Hindi Characters as my Bachelor Project, with 90% accuracy.

EXPERIENCE

Software Engineer Intern, Teradata Aster, SF   June'16 – Aug'16
- POC on TCP vs. UDS for intra-node communication, expecting ~10% increase in database performance.
- Worked on new architecture for data distribution for creating a cloud based distributed database

Software Engineer, InMobi, India   Sept'13 - May'15
Data Analytics Team
- Worked on Data Analytics platform for events from smart phone app users (> 1.5 billion events/day)
- Implemented storage and real-time analysis of events and user segmentation for relevant ad serving
Platform Team
- Designed and developed Role Based Access Control Service for authorization of other services at InMobi

Systems SE, Hewlett Packard-ISO   July'11 - Aug'13
- Designed and developed test scenarios to ensure of stability, data integrity, performance of the File System
- FS Features: Volume allocation Zones, File Pre-allocation, Transaction Logging, Delayed Allocation
- Developed a framework for easier multi-threaded testing of file system, currently being used by the team

OTHER TECHNICAL PROJECTS

- Mobile Event Security, Inmobi (May'14-June'14): Implemented security of incoming mobile app data from XSS(cross site scripting) and XSRF(cross site request forgery).
- Abu-Robocon'10: As member of IIT Roorkee's ROBOCON-2010 team, worked on design and development of autonomous robots for pyramid building task. Used Arduino microprocessor
- Industrial Training, IBM (May'10 – July'10): Developed a sample application that is used to showcase all the capabilities of Rational Team Concert (SCM tool) for Microsoft Visual Studio IDE.

ACHIEVEMENTS AND POSITIONS OF RESPONSIBILITY

- Teaching Assistant, Design and Analysis of Algorithms, Winter 2016, UCSD
- Complete ownership of Data Analytics project during Oct'14 to March'15, Inmobi
- All India Rank 887 (top 0.4 %) in Joint Entrance Exam-2007 for admission in Indian Institute of Technology
- All India Rank 844 (top 0.3 %) in AIEEE (All India Engineering Entrance Exam)-2007

SKILLS

- Languages: Java, Python, C and C++(Prior experience)
- ML frameworks: Scikit-learn, Caffe(CNN), Neon(Deep Learning)