Abhijeet Krishnan

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Education

- **North Carolina State University** — Raleigh, NC
  PhD, Department of Computer Science — *Jan 2018 - present*
  - Relevant courses: Database Management Systems, Operating Systems, Artificial Intelligence II,
- **Visvesvaraya National Institute of Technology** — Nagpur, MH, India
  Bachelors of Technology, Computer Science and Engineering — *Aug 2013 - May 2017*
  - Relevant courses: Analysis of Algorithms, Computer Networks, Neuro-fuzzy Techniques,

Work Experience

- **Knexus Research Corp.** — National Harbour, MD, USA
  AI Intern — *June 2019 - Aug 2019*
  - Designed and developed a system for generating children's stories.
  - Invented a story graph structure to generate infinitely varying plots from a bank of mini-plots.
  - Used an automated planning tool for narrative generation.
- **Goldman Sachs** — Bengaluru, KA, India
  Summer Employee — *May 2016 - Aug 2016*
  - Submitted a patch for a bug in a 1500+ line C++ codebase.
  - Developed a real-time statistics monitoring tool for internal business processes.
  - Developed an automation script as part of an intra-division hackathon.

Academic Projects

- **Player Modelling using Gameplay Video Classification**
  Artificial Intelligence II, CSC 720 — *Jan 2019 - Apr 2019*
  - Designed and trained an ML model to classify gameplay videos based on player behaviour.
  - Developed a classifier based on a retrained Inception v3 ConvNet followed by an LSTM in Tensorflow.
  - Trained and tested the model on the Google Colab platform.
  - Achieved a test accuracy of 93%.
- **Level Generation using ASP for Laserverse**
  Generative Methods for Game Design, CSC 791 — *Oct 2018 - Dec 2018*
  - Designed a level generator for a puzzle game.
  - Used Answer Set Programming to model game rules.
  - Performed a quantitative evaluation of the expressive range of the generator.
- **Paging in XINU**
  Operating Systems Principles, CSC 501 — *Jan 2018 - Apr 2018*
  - Implemented paging in XINU, a Linux-like OS.

Other Projects

- **Credit Card Application Automation** — Pune, MH, India
  Barclays Hackathon 2016 — *Mar 2016*
  - Parsed a customer form using tesseract-ocr.
  - Generated synthetic data to model credit card applications.
  - Built a regression model to assign credit scores to applications.

Skills

Languages: Python, C, C++, Javascript, Java, bash, SQL, PHP, PDDL

Applications: git, gdb, clingo, GNU Octave, MATLAB, MariaDB

Libraries: TensorFlow, tesseract-ocr, JUnit

Activities

- **Competitive Coding** — Aug 2015 - present
  - Within top 2% in India on Codechef, within top 5% in India on Codeforces
  - Winner of Codebreak 2016, an internally held coding contest for interns at Goldman Sachs.